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(54) Title: B7-H1, A NOVEL IMMUNOREGULATORY MOLECULE

(57) Abstract: The invention provides novel polypeptides useful for co-stimulating T cells, isolated nucleic acid molecules encoding them, vectors containing the nucleic acid molecules, and cells containing the vectors. Also included are methods of making and using these co-stimulatory polypeptides.

B7-H1, A NOVEL IMMUNOREGULATORY MOLECULE

This application claims priority of U.S. Patent Application No. 09/451.291 filed November 30, 1999, and U.S. Patent Application No. 09/649.108 filed August 28, 2000.

BACKGROUND OF THE INVENTION

The invention is generally in the field of immunoregulation, and specifically T cell response regulation.

Mammalian T lymphocytes recognize antigenic peptides bound to major histocompatibility complex (MHC) molecules on the surface of antigen presenting cells (APC). The antigenic peptides are generated by proteolytic degradation of protein antigens within the APC. The interaction of the T cells with the APC and the subsequent response of the T cells are qualitatively and quantitatively regulated by interactions between cell surface receptors on the T cells with both soluble mediators and ligands on the surface of APC.

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SUMMARY OF THE INVENTION

The invention is based on the cloning of human and mouse cDNA molecules encoding novel homologous molecules that co-stimulate the T cell responses of both species and on the functional characterization of the polypeptides that the cDNA molecules encode. The human polypeptide is designated hB7-H1 and the mouse polypeptide mB7-H1. Text that refers to B7-H1 without specifying human versus mouse is pertinent to both forms of B7-H1. The invention features DNA molecules encoding the hB7-H1 mB7-H1 polypeptides, functional fragments of the polypeptides, and fusion proteins containing the polypeptides or functional fragments of the polypeptides. hB7-H1 and mB7-H1 and functional fragments of both, vectors containing the DNA molecules, and cells containing the vectors. Also included in the invention are antibodies that bind to the B7-H1 polypeptides. The invention features in vitro, in vivo, and ex vivo methods of co-stimulating T cell responses, methods of

screening for compounds that inhibit or enhance T cell responses, and methods for producing the above polypeptides and fusion proteins.

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Specifically the invention features an isolated DNA including: (a) a nucleic acid sequence that (i) encodes a B7-H1 polypeptide with the ability to co-stimulate a T cell. and (ii) hybridizes under stringent conditions to the complement of a sequence that encodes a polypeptide with an amino acid sequence with SEQ ID NO:1 or SEQ ID NO:3; or (b) a complement of this nucleic acid sequence. The nucleic acid sequence included in the isolated DNA will be at least 10 bp. 15 bp. 25 bp. 50 bp. 75 bp. 100 bp. 125 bp. 150 bp. 175 bp. 200 bp. 250 bp. 300 bp. 350 bp. 400 bp. 450 bp. 500 bp. 550 bp. 600 bp. 650 bp. 700 bp. 750. bp 800 bp. 850 bp. or 870 bp long. The nucleic acid sequence can encode a B7-H1 polypeptide that includes an amino sequence with SEQ ID NO:1 or SEQ ID NO:3 or it can have a nucleotide sequences with SEQ ID NO:2 or SEQ ID NO:4. The nucleic acid sequence can also encode functional fragments of these B7-H1 polypeptides.

The invention also embodies an isolated B7-H1 polypeptide encoded by a DNA that includes a nucleic acid sequence that (i) encodes a polypeptide with the ability to co-stimulate a T cell and (ii) hybridizes under stringent conditions to the complement of a sequence that encodes a polypeptide with an amino acid sequence with SEQ ID NO:1 or SEQ ID NO:3. The B7-H1 polypeptide can include an amino sequence of amino acid residue 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. or 32. to amino acid residue 290 of SEQ ID NO:1 or SEQ ID NO:3. The invention also encompasses B7-H1 polypeptides that include an amino acid sequence with SEQ ID NO:1 or SEQ ID NO:3, or either of these amino acid sequences but differing solely by one or more conservative substitutions. The polypeptides of the invention include fusion proteins containing a first domain and at least one additional domain. The first domain can be any of these polypeptides. The at least one additional domain can be a heterologous targeting or leader sequence, an amino acid sequence that facilitates purification, detection, or solubility of the fusion protein. The second domain can be.

for example, all or part of an immunoglobulin (lg) heavy chain constant region. Also included are isolated nucleic acid molecules encoding the fusion proteins.

The invention features vectors containing any of the DNAs of the invention and nucleic acid molecules encoding the fusion proteins of the invention. The vectors can be expression vectors in which the nucleic acid coding sequence or molecule is operably linked to a regulatory element which allows expression of the nucleic acid sequence or molecule in a cell. Also included in the invention are cells (e.g., mammalian, insect, yeast, fungal, or bacterial cells) containing any of the vectors of the invention.

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Another embodiment of the invention is a method of co-stimulating a T cell that involves contacting the T cell with any of the B7-H1 polypeptides of the invention, functional fragments thereof, or fusion proteins of the invention; these 3 classes of molecule are, for convenience, designated "B7-H1 agents". The contacting can be by culturing any of these B7-H1 agents with the T cell in vitro. Alternatively, the T cell can be in a mammal and the contacting can be, for example, by administering any of the B7-H1 agents to the mammal or administering a nucleic acid encoding the B7-H1 agent to the mammal. In addition, the method can be an ex vivo procedure that involves providing a recombinant cell which is the progeny of a cell obtained from the mammal and has been transfected or transformed ex vivo with a nucleic acid encoding any of the B7-H1 agents so that the cell expresses the B7-H1 agent; and administering the cell to the mammal. In this ex vivo procedure, the cell can be an antigen presenting cell (APC) that expresses the B7-H1 agent on its surface. Furthermore, prior to administering to the mammal, the APC can be pulsed with an antigen or an antigenic peptide. In any of the above methods, the mammal can be suspected of having, for example, an immunodeficiency disease, an inflammatory condition, or an autoimmune disease. In addition, in any of the methods, the T cell can be a helper T cell, e.g., a T cell that helps an effector (e.g., a cytotoxic T lymphocyte (CTL) or B cell antibody) response. An antibody response can be, for example, an IgM, IgG1, IgG2a, IgG2b, IgG3, IgG4, IgE, or IgA antibody response.

Co-stimulation of a T cell by any of the B7-H1 agents can result in an increase in the level of CD40 ligand on the surface of the T cell.

The invention includes a method of identifying a compound that inhibits an immune response. The method involves: providing a test compound: culturing. together, the compound, one or more B7-H1 agents, a T cell, and a T cell activating stimulus: and determining whether the test compound inhibits the response of the T cell to the stimulus, as an indication that the test compound inhibits an immune response. The invention also embodies a method of identifying a compound that enhances an immune response. The method involves: providing a test compound: culturing, together, the compound, one or more of B7-H1 agents, a T cell, and a T cell activating stimulus: and determining whether the test compound enhances the response of the T cell to the stimulus, as an indication that the test compound enhances an immune response. In both these methods, the stimulus can be, for example. an antibody that binds to a T cell receptor or a CD3 polypeptide. Alternatively, the stimulus can be an alloantigen or an antigenic peptide bound to a major histocompatibility complex (MHC) molecule on the surface of an antigen presenting cell (APC). The APC can be transfected or transformed with a nucleic acid encoding the B7-H1 agent and the B7-H1 agent can be expressed on the surface of the APC.

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The invention also features an antibody (e.g., a polyclonal or a monoclonal antibody) that binds to any of the B7-H1 polypeptides of the invention, e.g., the polypeptide with SEQ ID NO:1 or SEQ ID NO:3.

The invention also features a method of producing any of the B7-H1 polypeptides of the invention, functional fragments thereof, or fusion proteins of the invention. The method involves culturing a cell of the invention and purifying the relevant B7-H1 protein from the culture.

"Polypeptide" and "protein" are used interchangeably and mean any peptide-linked chain of amino acids, regardless of length or post-translational modification. The invention also features B7-H1 polypeptides with conservative substitutions. Conservative substitutions typically include substitutions within the

following groups: glycine and alanine: valine, isoleucine, and leucine: aspartic acid and glutamic acid: asparagine, glutamine, serine and threonine: lysine, histidine and arginine: and phenylalanine and tyrosine.

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The term "isolated" polypeptide or peptide fragment as used herein refers to a polypeptide or a peptide fragment which either has no naturally-occurring counterpart (e.g., a peptidomimetic), or has been separated or purified from components which naturally accompany it, e.g., in tissues such as pancreas, liver, spleen, ovary, testis, muscle, joint tissue, neural tissue, gastrointestinal tissue, or body fluids such as blood, serum, or urine. Typically, the polypeptide or peptide fragment is considered "isolated" when it is at least 70%, by dry weight, free from the proteins and naturally-occurring organic molecules with which it is naturally associated. Preferably, a preparation of a polypeptide (or peptide fragment thereof) of the invention is at least 80%. more preferably at least 90%, and most preferably at least 99%, by dry weight, the polypeptide (or the peptide fragment thereof), respectively, of the invention. Thus, for example, a preparation of polypeptide x is at least 80%. more preferably at least 90%, and most preferably at least 99%, by dry weight. polypeptide x. Since a polypeptide that is chemically synthesized is, by its nature. separated from the components that naturally accompany it, the synthetic polypeptide or nucleic acid is "isolated."

An isolated polypeptide (or peptide fragment) of the invention can be obtained, for example, by extraction from a natural source (e.g., from human tissues or bodily fluids): by expression of a recombinant nucleic acid encoding the peptide; or by chemical synthesis. A peptide that is produced in a cellular system different from the source from which it naturally originates is "isolated," because it will be separated from components which naturally accompany it. The extent of isolation or purity can be measured by any appropriate method, e.g., column chromatography.

polyacrylamide gel electrophoresis, or HPLC analysis.

An "isolated DNA" means DNA free of one or both of the genes that flank the gene containing the DNA of interest in the genome of the organism in which the gene containing the DNA of interest naturally occurs. The term therefore includes a

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recombinant DNA incorporated into a vector, into an autonomously replicating plasmid or virus, or into the genomic DNA of a prokaryote or eukaryote. It also includes a separate molecule such as: a cDNA where the corresponding genomic DNA has introns and therefore a different sequence: a genomic fragment: a fragment produced by polymerase chain reaction (PCR); a restriction fragment: a DNA encoding a non-naturally occurring protein, fusion protein, or fragment of a given protein: or a nucleic acid which is a degenerate variant of a naturally occurring nucleic acid. In addition, it includes a recombinant nucleotide sequence that is part of a hybrid gene, i.e., a gene encoding a fusion protein. Also included is a recombinant DNA that includes a portion of SEQ ID NO:2, SEQ ID NO:4, or SEQ ID NO:5. It will be apparent from the foregoing that isolated DNA does not mean a DNA present among hundreds to millions of other DNA molecules within, for example, cDNA or genomic DNA libraries or genomic DNA restriction digests in, for example, a

As used herein, a polypeptide that "co-stimulates" a T cell is a polypeptide that, upon interaction with a cell-surface molecule on the T cell, enhances the response of the T cell. The T cell response that results from the interaction will be greater than the response in the absence of the polypeptide. The response of the T cell in the absence of the co-stimulatory polypeptide can be no response or it can be a response significantly lower than in the presence of the co-stimulatory polypeptide. It is understood that the response of the T cell can be an effector (e.g., CTL or antibody-producing B cell) response, a helper response providing help for one or more effector (e.g., CTL or antibody-producing B cell) responses, or a suppressive response.

As used herein, an "activating stimulus" is a molecule that delivers an activating signal to a T cell, preferably through the antigen specific T cell receptor (TCR). The activating stimulus can be sufficient to elicit a detectable response in the T cell. Alternatively, the T cell may require co-stimulation (e.g., by a B7-H1 polypeptide) in order to respond detectably to the activating stimulus. Examples of activating stimuli include, without limitation, antibodies that bind to the TCR or to a

polypeptide of the CD3 complex that is physically associated with the TCR on the T cell surface, alloantigens, or an antigenic peptide bound to a MHC molecule.

As used herein, a "fragment" of a B7-H1 polypeptide is a fragment of the polypeptide that is shorter than the full-length polypeptide. Generally, fragments will be five or more amino acids in length. An antigenic fragment has the ability to be recognized and bound by an antibody.

As used herein, a "functional fragment" of a B7-H1 polypeptide is a fragment of the polypeptide that is shorter than the full-length polypeptide and has the ability to co-stimulate a T cell. Methods of establishing whether a tragment of an B7-H1 molecule is functional are known in the art. For example, fragments of interest can be made by either recombinant, synthetic, or proteolytic digestive methods. Such fragments can then be isolated and tested for their ability to co-stimulate T cells by procedures described herein.

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As used herein, "operably linked" means incorporated into a genetic construct so that expression control sequences effectively control expression of a coding sequence of interest.

As used herein, the term "antibody" refers not only to whole antibody molecules, but also to antigen-binding fragments, e.g., Fab, F(ab')₂. Fv. and single chain Fv fragments. Also included are chimeric antibodies.

As used herein, an antibody that "binds specifically" to an isolated B7-H1 polypeptide encoded by a DNA that includes a nucleic acid sequence that (i) encodes a polypeptide with the ability to co-stimulate a T cell and (ii) hybridizes under stringent conditions to the complement of a sequence that encodes a polypeptide with an amino acid sequence with SEQ ID NO:1 or SEQ ID NO:3, is an antibody that does not bind to B7-1 or B7-2 polypeptides.

Unless otherwise defined, all technical and scientific terms used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this invention pertains. In case of conflict, the present document, including definitions, will control. Preferred methods and materials are described below.

although methods and materials similar or equivalent to those described herein can be used in the practice or testing of the present invention. All publications, patent applications, patents and other references mentioned herein are incorporated by reference in their entirety. The materials, methods, and examples disclosed herein are illustrative only and not intended to be limiting.

Other features and advantages of the invention, e.g., enhancing immune responses in mammalian subjects, will be apparent from the following description, from the drawings and from the claims.

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BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a depiction of the nucleotide sequence of a cDNA fragment (SEQ ID NO: 5) that includes the coding sequence (nucleotides 72-870 of SEQ ID NO:5) (SEQ ID NO:2) of hB7-H1.

FIG. 2a is a depiction of the amino acid sequence of hB7-H1 (SEQ ID NO:1). The signal peptide. Ig-V-like domain, Ig-C-like domain, and transmembrane ("TM") domain are indicated. Potential N-linked glycosylation sites are indicated by *.

FIG. 2b is a depiction of the amino acid sequences of the extracellular domains of hB7-H1 (SEQ ID NO:10), human B7-1 (hB7-1: SEQ ID NO:11), and human B7-2 (hB7-2: SEQ ID NO:12) aligned for maximum homology. Identical amino acid residues are shaded in bold and conserved residues are boxed. Conserved cysteine residues are indicated by *.

FIG. 3 is a photograph of a Northern blot showing expression of hB7-H1 mRNA in various human tissues.

FIG. 4 is a series of two-dimensional fluorescence flow cytometry histograms showing cell surface expression of hB7-H1 on resting and activated CD3+ T cells. CD19+ B cells, and CD14+ monocytes.

FIG. 5a is a series of fluorescence flow cytometry histograms showing binding of CTLA-4lg, ICOSIg. and antibody specific for hB7-H1 to 293 cells transfected with either a control vector ("Mock/293 cells") or a vector containing a cDNA insert encoding hB7-H1 ("hB7-H1/293 cells"), or Raji cells.

FIG. 5b is a series of fluorescence flow cytometry histograms showing the binding of hB7-H1Ig and antibody to CD28 to Jurkat cells.

FIG. 6a is a line graph showing the ability of immobilized hB7-H1Ig to costimulate the proliferative response of human T cells to immobilized antibody specific for human CD3.

FIG. 6b is a line graph showing the ability of soluble hB7-H1lg to costimulate the proliferative response of human T cells to irradiated allogeneic PBMC.

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FIGS. 7a-7d are a series of line graphs showing the ability of hB7-H1Ig. human B7-1Ig. or antibody specific for human CD28 to co-stimulate the production of interleukin-(IL-)10 (FIG. 7a). interferon- γ (IFN-γ) (FIG. 7b). IL-2 (FIG. 7c). or IL-4 (FIG. 7d) by human T cells responding to immobilized antibody specific for CD3. FIG. 7e is a line graph showing the ability of various concentrations of hB7-H1Ig to co-stimulate the production of IL-2 by human T cells responding to immobilized antibody specific for CD3.

FIG. 8a is a bar graph showing the ability of antibody specific for human IL-2 to inhibit the proliferation of human T cells induced by antibody specific for human CD3 and co-stimulated by COS cells transfected with and expressing either hB7-H1 or human B7-1.

FIG. 8b is a bar graph showing the ability of antibody specific for human IL-2 to inhibit the production of IL-10 by human T cells stimulated by immobilized antibody specific for human CD3 and co-stimulated by either hB7-H1Ig or B7-1Ig.

FIG. 9a is a series of two-dimensional fluorescence flow cytometry profiles showing the relative proportion of T cells in early (annexin V-positive, propidium iodide (PI)-negative) and late (annexin V-positive, PI-positive) apoptosis following activation by immobilized antibody specific for human CD3 and co-stimulation with either control lg or hB7-H1lg.

FIG. 9b is series of fluorescence flow cytometry profiles showing expression of Fas and FasL on human T cells following activation by immobilized antibody specific for human CD3 and co-stimulation with either control Ig or hB7-H1Ig.

FIG. 10 is a depiction of the nucleotide sequence of cDNA encoding mB7-H1 (SEO ID NO:4).

- FIG. 11 is a depiction of the amino acid sequence of mB7-H1 (SEQ ID NO:3).
- FIG. 12a is a depiction of the amino acid sequence of mB7-H1 (SEQ ID NO:3) aligned with the amino acid sequence of hB7-H1 (SEQ ID NO:1). The signal peptide. IgV-like domain. IgC-like domain. transmembrane ("TM") domain. and cytoplasmic domain ("cytoplasmic") of mB7-H1 are indicated.

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- FIG.12b is a depiction of the amino acid sequences of mB7-H1. mouse B7-1 (mB7-1: SEQ ID NO:13), mouse B7-2 (mB7-2: SEQ ID NO:14), and mB7h/B7KF-1 (SEQ ID NO:15) aligned for maximum homology. Identical amino acid residues are shaded and conserved amino acid residues are boxed. Conserved cysteine residues are indicated by *.
- FIG. 13 is a series of fluorescence flow cytometry histograms showing relative levels of cell surface expression of mB7-H1 on resting and activated mouse CD3+ T cells. mouse B220+ B cells. and Mac-1+ mouse macrophages.
- FIG. 14a is a line graph showing the ability of various concentrations of immobilized mB7-H1Ig or immobilized control Ig to co-stimulate the *in vitro* proliferative response of mouse T cells to a suboptimal dose of immobilized antibody specific for mouse CD3.
- FIG. 14b is a pair of line graphs showing the ability of immobilized mB7-H1Ig, immobilized control Ig, or soluble antibody specific for mouse CD28 to costimulate the *in vitro* proliferative response of wild type ("wt") C57BL/6 mouse (left graph) or CD28-deficient ("CD28") C57BL/6 mouse (right graph) T cells to two suboptimal doses of immobilized antibody specific for mouse CD3.
- FIG. 14c is a bar graph showing the ability of immobilized mB7-H1lg or immobilized control Ig to co-stimulate the *in vitro* proliferative response of purified CD4+ or CD8+ mouse T cells to a suboptimal dose of immobilized antibody specific for mouse CD3.

FIG. 15a is a series of line graphs showing the ability of immobilized mB7-H1Ig. immobilized control lg. or soluble antibody specific for mouse CD28 ("Anti-CD28") to co-stimulate the *in vitro* production (on days one, two, and three after initiation of the cultures) of various cytokines by C57BL/6 mouse T cells in response to immobilized antibody specific for mouse CD3.

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- FIG. 15b is a line graph showing the effect of immobilized mB7-H1lg on the *in vitro* production (18, 24, 36, and 48 hours after initiation of the cultures) of IL-2 by C57BL/6 mouse T cells responding to immobilized antibody specific for mouse CD3 and co-stimulated by soluble antibody specific for mouse CD28 ("Anti-CD28").
- FIG. 16a and FIG. 16b are fluorescence flow cytometry histograms showing lack of surface expression of murine B7-1 (FIG. 16a) and mB7-H1 (FIG. 16b) on P815 cells transfected with a control expression vector ("mock.P815").
- FIG. 17a and FIG. 17b are fluorescence flow cytometry histograms showing surface expression of murine B7-1 (FIG. 17a) and lack of surface expression of mB7-H1 (FIG. 17b) on P815 cells transfected with an expression vector containing a nucleic acid sequence encoding murine B7-1 ("mB7-1" P815").
- FIG. 18a and FIG. 18b are fluorescence flow cytometry histograms showing lack of surface expression of mB7-1 (FIG. 18a) and showing surface expression of mB7-H1 (FIG. 18b) on P815 cells transfected with an expression vector containing a nucleic acid sequence encoding mB7-H1 ("mB7-H1⁺ P815").
- FIG. 19a and FIG. 19b are line graphs showing the growth rate of P815 tumors in DBA/2 mice injected subcutaneously with P815 cells transfected with a control expression vector (FIG. 19a) or an expression vector containing a nucleic acid sequence encoding mB7-H1 (FIG. 19b).
- FIG. 20a is a pair of line graphs showing the ability of control mock-transfected P815 cells ("mock. P815"). P815 cells transfected with an expression vector containing a cDNA sequence encoding mB7-H1 ("mB7-H1" P815"), or P815 cells transfected with an expression vector containing a cDNA sequence encoding mB7-1 ("mB7-1" P815") to activate allospecific C57BL/6 mouse CTL in vitro. The

effector cell populations were tested for cytotoxic activity ("% Lysis") at various effector to target cell (E/T) ratios against wild type P815 (left graph) and control EL4 (right graph) target cells.

FIG. 20b is a pair of line graphs showing the ability of control mock-transfected P815 cells ("mock. P815"). P815 cells transfected with an expression vector containing a cDNA sequence encoding mB7-H1 ("mB7-H1" P815"), or P815 cells transfected with an expression vector containing a cDNA sequence encoding mB7-1 ("mB7-1" P815") to activate tumor-specific DBA/2 mouse CTL *in vivo*. The effector cell populations were tested for cytotoxic activity ("% Lysis") at various E/T ratios against wild type P815 (left graph) and control L1210 (right graph) target cells.

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FIG. 21 is a pair of line graphs showing the *in vitro* proliferative responses to various concentrations of keyhole limpet hemacyanin (KLH) of draining lymph node (left graph) or spleen (right graph) T cells from C57BL/6 immunized intraperitoneally (i.p.) with trinitrophenol (TNP) conjugated KLH (TNP-KLH) in incomplete Freund's adjuvant and subsequently injected i.p. with mB7-H1lg or control lg.

FIG. 22 is a series of bar graphs showing the relative levels (as measured by ELISA) of IgG1. IgG2a. IgG2b. IgG3. or IgM antibodies specific for TNP in the sera of C57BL/6 mice injected i.p. with TNP-KLH in phosphate buffered saline and either control Ig. mB7-H1Ig. or mB7-11g.

FIG. 23a is a series of fluorescence flow cytometry histograms showing the relative levels of cell surface expression of CD40 ligand (CD40L) (as measured by the binding of an antibody specific for mouse CD40L ("anti-CD40L")) on purified mouse CD4+ T cells (at 4 and 24 hours after initiation of the cultures) activated by immobilized antibody specific for mouse CD3 ("anti-CD3") coated onto the bottoms of tissue culture wells at a concentration of 200 ng/ml and co-stimulated by immobilized control Ig. immobilized mB7-H1Ig. or soluble antibody specific for mouse CD28 ("anti-CD28").

FIG. 23b is a series of fluorescence flow cytometry histograms showing the relative levels of cell surface expression of CD40 ligand (CD40L) (as measured by the binding of an antibody specific for mouse CD40L ("anti-CD40L")) on purified

mouse CD4+ T cells (at 4 and 24 hours after initiation of the cultures) activated by immobilized antibody specific for mouse CD3 ("anti-CD3") coated onto the bottoms of tissue culture wells at a concentration of 1.000 ng/ml and co-stimulated by immobilized control lg. immobilized mB7-H1lg. or soluble antibody specific for mouse CD28 ("anti-CD28").

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DETAILED DESCRIPTION

Using PCR primers with sequences derived from an expressed sequence tag (EST) that had significant homology to human B7-1 and B7-2 and a human cDNA library as a source of template. cDNA sequences corresponding to regions of a transcript 5° and 3° of the EST were identified. A cDNA molecule (SEQ ID NO:5) that included a open reading frame (orf) (SEQ ID NO:2) encoding a novel B7-related molecule was then generated using PCR primers with sequences derived from the 3° and 5° ends and cloned.

Translation of the cDNA sequence indicated that the polypeptide (SEQ ID NO:1) that it encoded (hB7-H1) is a type I transmembrane protein of 290 amino acids containing an immunoglobulin (Ig) V-like domain. Ig C-like domain. a transmembrane domain and a cytoplasmic domain of 30 amino acids. Northern blot analysis showed strong expression of the gene encoding hB7-H1 in heart, skeletal muscle, placenta, and lung, and weak expression in thymus, spleen, kidney, and liver. Expression was undetectable in brain, colon, small intestine, and peripheral blood mononuclear cells (PBMC).

Using an antiserum produced by immunization of mice with a recombinantly produced fusion protein that included the hB7-H1 protein, expression by fluorescence flow cytometry indicated negligible expression on resting T and B cells. On the other hand, about 16% of CD14+ monocytes constitutively expressed the molecule on their surface. Activation of T cells increased expression such that about 30% expressed cell-surface hB7-H1. Activation resulted in about 90% of monocytes expressing hB7-1H, but only about 6% of B cells expressed it after activation.

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Transfection of 293 cells resulted in an hB7-H1 expressing cell line (hB7-H1/293) which was used for binding experiments. These experiments and others with a CD28 expressing cell line indicated that neither CTLA4. ICOS, nor CD28 were receptors for hB7-H1.

In vitro experiments with isolated human T cells and the hB7-H1-containing fusion protein indicated that hB7-H1 had no direct activity on T cells, it enhanced ("co-stimulated") T cell proliferative responses induced by both antibody specific for human CD3 and MHC alloantigens. This co-stimulatory activity was significantly more potent when the hB7-H1 was immobilized in the plastic tissue culture wells used for the cultures than when it as in solution. Similar experiments indicated that hB7-H1 had a dramatic and selective enhancing effect on the production of interleukin (IL)-10 induced by T cell activation. Moreover this IL-10 enhancing activity appeared to be dependent on at least low amounts of IL-2. Analysis of T cells activated by anti-CD3 antibody and hB7-H1Ig indicated that hB7-H1 enhances apoptosis and expression of Fas and FasL.

In addition, using a strategy similar to that used to clone hB7-H1 cDNA, a cDNA molecule containing an orf encoding mouse B7-H1 (mB7-H1) was cloned, the nucleotide sequence of the orf (SEQ ID NO:4) was obtained, and the amino acid sequence of the encoded sequence (SEQ ID NO:3) was derived. mB7-H1 is exactly the same length (290 amino acids) and has the same domain structure as hB7-H1. Moreover, mB7-H1 has a similar tissue distribution to hB7-H1. mB7-H1 costimulated the response of mouse T cells with its effect being more potent on CD4+ than on CD8+ T cells. In addition, like hB7-H1, mB7-H1 co-stimulates the production of high levels of IL-10 by T cells. mB7-H1 also enhanced the production of both interferon-γ (IFN-γ) and granulocyte macrophage-colony stimulating factor (GM-CSF) by T cells. While mB7-H1 showed no significant ability to enhance CTL responses, it did greatly increase antibody responses and, in particular, IgG2a antibody responses. Finally, co-stimulation of T cells with mB7-H1 caused an increase in the level of CD40 ligand (CD40L) on the surface of the T cells.

B7-H1 can be useful as an augmenter of immune responses (e.g., helper T cell and antibody responses) both *in vivo* and *in vitro*. Furthermore, in light of (a) its ability to selectively enhance IL-10 production, (b) its ability to enhance apoptosis, and (c) its expression in placenta and lung, both organs normally protected from unneeded cellular-mediated immune and inflammatory responses. B7-H1 can be useful in controlling pathologic cell-mediated conditions (e.g., those induced by infectious agents such as *Mycobacterium tuberculosis* or *M. leprae*) or other pathologic cell-mediated responses such as those involved in autoimmune diseases (e.g., rheumatoid arthritis (RA), multiple sclerosis (MS), or insulin-dependent diabetes mellitus (IDDM)).

B7-H1 Nucleic Acid Molecules

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The B7-H1 nucleic acid molecules of the invention can be cDNA, genomic DNA, synthetic DNA, or RNA, and can be double-stranded or single-stranded (*i.e.*, either a sense or an antisense strand). Segments of these molecules are also considered within the scope of the invention, and can be produced by, for example, the polymerase chain reaction (PCR) or generated by treatment with one or more restriction endonucleases. A ribonucleic acid (RNA) molecule can be produced by *in vitro* transcription. Preferably, the nucleic acid molecules encode polypeptides that, regardless of length, are soluble under normal physiological conditions. Naturally, the membrane forms would not be soluble.

The nucleic acid molecules of the invention can contain naturally occurring sequences, or sequences that differ from those that occur naturally, but, due to the degeneracy of the genetic code, encode the same polypeptide (for example, the polypeptides with SEQ ID NOS:1 and 3). In addition, these nucleic acid molecules are not limited to coding sequences, e.g., they can include some or all of the non-coding sequences that lie upstream or downstream from a coding sequence. They include, for example, the nucleic acid molecule with SEQ ID NO:5.

The nucleic acid molecules of the invention can be synthesized (for example, by phosphoramidite-based synthesis) or obtained from a biological cell, such as the

cell of a mammal. Thus, the nucleic acids can be those of a human, non-human primate (e.g., monkey) mouse, rat, guinea pig, cow, sheep, horse, pig, rabbit, dog, or cat.

In addition, the isolated nucleic acid molecules of the invention encompass segments that are not found as such in the natural state. Thus, the invention encompasses recombinant nucleic acid molecules, (for example, isolated nucleic acid molecules encoding hB7-H1 or mB7-H1) incorporated into a vector (for example, a plasmid or viral vector) or into the genome of a heterologous cell (or the genome of a homologous cell, at a position other than the natural chromosomal location). Recombinant nucleic acid molecules and uses therefor are discussed further below.

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Certain nucleic acid molecules of the invention are antisense molecules or are transcribed into antisense molecules. These can be used, for example, to down-regulate translation of B7-H1 mRNA within a cell.

Techniques associated with detection or regulation of genes are well known to skilled artisans and such techniques can be used to diagnose and/or treat disorders associated with aberrant B7-H1 expression. Nucleic acid molecules of the invention are discussed further below in the context of their therapeutic utility.

A B7-H1 family gene or protein can be identified based on its similarity to the relevant B7-H1 gene or protein, respectively. For example, the identification can be based on sequence identity. The invention features isolated nucleic acid molecules which are at least 50% (or 55%, 65%, 75%, 85%, 95%, or 98%) identical to: (a) a nucleic acid molecule that encodes the polypeptide of SEQ ID NO:1 or 3: (b) the nucleotide sequence of SEQ ID NO:2 or 4; or (c) a nucleic acid molecule which includes a segment of at least 30 (e.g., at least 50, 60, 100, 125, 150, 175, 200, 250, 300, 325, 350, 375, 400, 425, 450, 500, 550, 600, 650, 700, 800, or 865) nucleotides of SEQ ID NO:2 or SEQ ID NO:4.

The determination of percent identity between two sequences is accomplished using the mathematical algorithm of Karlin and Altschul. *Proc. Natl. Acad. Sci. USA* 90, 5873-5877, 1993. Such an algorithm is incorporated into the BLASTN and BLASTP programs of Altschul et al. (1990) *J. Mol. Biol.* 215, 403-410. BLAST

nucleotide searches are performed with the BLASTN program. score = 100. wordlength = 12 to obtain nucleotide sequences homologous to B7-H1-encoding nucleic acids. BLAST protein searches are performed with the BLASTP program. score = 50. wordlength = 3 to obtain amino acid sequences homologous to B7-H1. To obtain gapped alignments for comparative purposes. Gapped BLAST is utilized as described in Altschul et al. (1997) *Nucleic Acids Res.* 25, 3389-3402. When utilizing BLAST and Gapped BLAST programs, the default parameters of the respective programs (e.g., XBLAST and NBLAST) are used (*See* http://www.ncbi.nlm.nih.gov).

Hybridization can also be used as a measure of homology between two nucleic acid sequences. A B7-H1-encoding nucleic acid sequence, or a portion thereof, can be used as hybridization probe according to standard hybridization techniques. The hybridization of a B7-H1 probe to DNA from a test source (e.g., a mammalian cell) is an indication of the presence of B7-H1 DNA in the test source. Hybridization conditions are known to those skilled in the art and can be found in Current Protocols in Molecular Biology. John Wiley & Sons. N.Y., 6.3.1-6.3.6, 1991. Moderate hybridization conditions are defined as equivalent to hybridization in 2X sodium chloride/sodium citrate (SSC) at 30°C. followed by one or more washes in 1 X SSC, 0.1% SDS at 50-60°C. Highly stringent conditions are defined as equivalent to hybridization in 6X sodium chloride/sodium citrate (SSC) at 45°C. followed by one or more washes in 0.2 X SSC, 0.1% SDS at 50-65°C.

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The invention also encompasses: (a) vectors that contain any of the foregoing B7-H1-related coding sequences and/or their complements (that is, "antisense" sequence): (b) expression vectors that contain any of the foregoing B7-H1-related coding sequences operatively associated with any transcriptional/translational regulatory elements (examples of which are given below) necessary to direct expression of the coding sequences: (c) expression vectors containing, in addition to sequences encoding a B7-H1 polypeptide, nucleic acid sequences that are unrelated to nucleic acid sequences encoding B7-H1, such as molecules encoding a reporter, marker, or a signal peptide, e.g., fused to B7-H1; and (d) genetically engineered host

cells that contain any of the foregoing expression vectors and thereby express the nucleic acid molecules of the invention.

Recombinant nucleic acid molecules can contain a sequence encoding hB7-H1 or mB7-H1, or B7-H1 having an heterologous signal sequence. The full length B7-H1 polypeptide, a domain of B7-H1, or a fragment thereof may be fused to additional polypeptides, as described below. Similarly, the nucleic acid molecules of the invention can encode the mature form of B7-H1 or a form that includes an exogenous polypeptide which facilitates secretion.

The transcriptional/translational regulatory elements referred to above and which are further described below, include, but are not limited to, inducible and non-inducible promoters, enhancers, operators and other elements, which are known to those skilled in the art, and which drive or otherwise regulate gene expression. Such regulatory elements include but are not limited to the cytomegalovirus hCMV immediate early gene, the early or late promoters of SV40 adenovirus, the <u>lac</u> system, the <u>trp</u> system, the <u>TAC</u> system, the <u>TRC</u> system, the major operator and promoter regions of phage A, the control regions of fd coat protein, the promoter for 3-phosphoglycerate kinase, the promoters of acid phosphatase, and the promoters of the yeast α-mating factors.

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Similarly, the nucleic acid can form part of a hybrid gene encoding additional polypeptide sequences, for example, sequences that function as a marker or reporter. Examples of marker or reporter genes include β-lactamase, chloramphenicol acetyltransferase (CAT), adenosine deaminase (ADA), aminoglycoside phosphotransferase (neo^τ, G418^τ), dihydrofolate reductase (DHFR), hygromycin-B-phosphotransferase (HPH), thymidine kinase (TK), lacZ (encoding β-galactosidase), and xanthine guanine phosphoribosyltransferase (XGPRT). As with many of the standard procedures associated with the practice of the invention, skilled artisans will be aware of additional useful reagents, for example, additional sequences that can serve the function of a marker or reporter. Generally, the hybrid polypeptide will include a first portion and a second portion; the first portion being a B7-H1 polypeptide and the second portion being, for example, the reporter described above

or an Ig constant region or part of an Ig constant region, e.g., the CH2 and CH3 domains of IgG2a heavy chain.

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The expression systems that may be used for purposes of the invention include, but are not limited to, microorganisms such as bacteria (for example, E. coli and B. subtilis) transformed with recombinant bacteriophage DNA, plasmid DNA, or cosmid DNA expression vectors containing the nucleic acid molecules of the invention: yeast (for example, Saccharomyces and Pichia) transformed with recombinant veast expression vectors containing the nucleic acid molecules of the invention (preferably containing the nucleic acid sequence encoding B7-H1 (e.g., that contained within SEQ ID NOS:1 or 3)): insect cell systems infected with recombinant virus expression vectors (for example, baculovirus) containing the nucleic acid molecules of the invention: plant cell systems infected with recombinant virus expression vectors (for example, cauliflower mosaic virus (CaMV) and tobacco mosaic virus (TMV)) or transformed with recombinant plasmid expression vectors (for example. Ti plasmid) containing B7-H1 nucleotide sequences; or mammalian cell systems (for example, COS, CHO, BHK, 293, VERO, HeLa, MDCK, WI38, and NIH 3T3 cells) harboring recombinant expression constructs containing promoters derived from the genome of mammalian cells (for example, the metallothionein promoter) or from mammalian viruses (for example, the adenovirus late promoter and the vaccinia virus 7.5K promoter). Also useful as host cells are primary or secondary cells obtained directly from a mammal, transfected with a plasmid vector or infected with a viral vector.

Polypeptides and Polypeptide Fragments

The polypeptides of the invention include hB7-H1, mB7-H1, and functional fragments of these polypeptides. The polypeptides embraced by the invention also include fusion proteins which contain either full-length B7-H1 or a functional fragment of it fused to unrelated amino acid sequence. The unrelated sequences can be additional functional domains or signal peptides. Signal peptides are described in greater detail and exemplified below. The polypeptides can be any of those described

above but with one or more (e.g., one, two, three, four, five, six, seven, eight, nine, 10, 12, 14, 17, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100 or more) conservative substitutions.

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The polypeptides can be purified from natural sources (e.g., blood, serum plasma, tissues or cells such as T cells or any cell that naturally produces B7-H1). Smaller peptides (less than 50 amino acids long) can also be conveniently synthesized by standard chemical means. In addition, both polypeptides and peptides can be produced by standard *in vitro* recombinant DNA techniques and *in vivo* recombination/genetic recombination (e.g., transgenesis), using the nucleotide sequences encoding the appropriate polypeptides or peptides. Methods well known to those skilled in the art can be used to construct expression vectors containing relevant coding sequences and appropriate transcriptional/translational control signals. See, for example, the techniques described in Sambrook et al., Molecular Cloning: A Laboratory Manual (2nd Ed.) [Cold Spring Harbor Laboratory, N.Y., 1989], and Ausubel et al., Current Protocols in Molecular Biology, [Green Publishing Associates and Wiley Interscience, N.Y., 1989].

Polypeptides and fragments of the invention also include those described above, but modified for *in vivo* use by the addition, at the amino- and/or carboxylterminal ends, of a blocking agent to facilitate survival of the relevant polypeptide *in vivo*. This can be useful in those situations in which the peptide termini tend to be degraded by proteases prior to cellular uptake. Such blocking agents can include, without limitation, additional related or unrelated peptide sequences that can be attached to the amino and/or carboxyl terminal residues of the peptide to be administered. This can be done either chemically during the synthesis of the peptide or by recombinant DNA technology by methods familiar to artisans of average skill.

Alternatively, blocking agents such as pyroglutamic acid or other molecules known in the art can be attached to the amino and/or carboxyl terminal residues, or the amino group at the amino terminus or carboxyl group at the carboxyl terminus can be replaced with a different moiety. Likewise, the peptides can be covalently or

noncovalently coupled to pharmaceutically acceptable "carrier" proteins prior to administration.

Also of interest are peptidomimetic compounds that are designed based upon the amino acid sequences of the functional peptide fragments. Peptidomimetic compounds are synthetic compounds having a three-dimensional conformation (i.e., a "peptide motif") that is substantially the same as the three-dimensional conformation of a selected peptide. The peptide motif provides the peptidomimetic compound with the ability to co-stimulate T cells in a manner qualitatively identical to that of the B7-H1 functional peptide fragment from which the peptidomimetic was derived. Peptidomimetic compounds can have additional characteristics that enhance their therapeutic utility, such as increased cell permeability and prolonged biological half-life.

The peptidomimetics typically have a backbone that is partially or completely non-peptide, but with side groups that are identical to the side groups of the amino acid residues that occur in the peptide on which the peptidomimetic is based. Several types of chemical bonds, e.g., ester, thioester, thioamide, retroamide, reduced carbonyl, dimethylene and ketomethylene bonds, are known in the art to be generally useful substitutes for peptide bonds in the construction of protease-resistant peptidomimetics.

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Methods of Co-stimulating a T Cell

The methods of the invention involve contacting a T cell with a B7-H1 polypeptide of the invention, or a functional fragment thereof, in order to co-stimulate the T cell. Such polypeptides or functional fragments can have amino acid sequences identical to wild-type sequences or they can contain one or more (e.g., one, two, three, four, five, six, seven, eight, nine, 10, 12, 14, 17, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100 or more) conservative substitutions. The contacting can occur before, during, or after activation of the T cell. Contacting of the T cell with the B7-H1 polypeptide will preferably be at substantially the same time as activation. Activation can be, for example, by exposing the T cell to an antibody that binds to the TCR or one of the

polypeptides of the CD3 complex that is physically associated with the TCR. Alternatively, the T cell can be exposed to either an alloantigen (e.g., a MHC alloantigen) on, for example, an antigen presenting cell (APC) (e.g., a dendritic cell, a macrophage, a monocyte, or a B cell) or an antigenic peptide produced by processing of a protein antigen by any of the above APC and presented to the T cell by MHC molecules on the surface of the APC. The T cell can be a CD4+ T cell or a CD8+ T cell. The B7-H1 molecule can be added to the solution containing the cells, or it can be expressed on the surface of an APC, e.g., an APC presenting an alloantigen or an antigen peptide bound to an MHC molecule. Alternatively, if the activation is *in vitro*, the B7-H1 molecule can be bound to the floor of a the relevant culture vessel, e.g., a well of a plastic microtiter plate.

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The methods can be performed *in vitro*, *in vivo*, or *ex vivo*. *In vitro* application of B7-H1 can be useful, for example, in basic scientific studies of immune mechanisms or for production of activated T cells for use in either studies on T cell function or, for example, passive immunotherapy. Furthermore, B7-H1 could be added to *in vitro* assays (e.g., in T cell proliferation assays) designed to test for immunity to an antigen of interest in a subject from which the T cells were obtained. Addition of B7-H1 to such assays would be expected to result in a more potent, and therefore more readily detectable. *in vitro* response. However, the methods of the invention will preferably be *in vivo* or *ex vivo* (see below).

The B7-H1 proteins and variants thereof are generally useful as immune response-stimulating therapeutics. For example, the polypeptides of the invention can be used for treatment of disease conditions characterized by immunosuppression: e.g., cancer. AIDS or AIDS-related complex, other virally or environmentally-induced conditions, and certain congenital immune deficiencies. The compounds may also be employed to increase immune function that has been impaired by the use of radiotherapy of immunosuppressive drugs such as certain chemotherapeutic agents, and therefore are particularly useful when given in conjunction with such drugs or radiotherapy. In addition, in view of the ability of B7-H1 to co-stimulate the production of especially high levels of IL-10. B7-H1 molecules can be used to treat

conditions involving cellular immune responses, e.g., inflammatory conditions, e.g., those induced by infectious agents such *Mycohacterium tuberculosis* or *M. leprae*, or other pathologic cell-mediated responses such as those involved in autoimmune diseases (e.g., rheumatoid arthritis (RA), multiple sclerosis (MS), or insulindependent diabetes mellitus (IDDM)).

These methods of the invention can be applied to a wide range of species, e.g., humáns, non-human primates, horses, cattle, pigs, sheep, goats, dogs, cats, rabbits, quinea pigs, hamsters, rats, and mice.

In Vivo Approaches

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In one in vivo approach, the B7-H1 polypeptide (or a functional fragment thereof) itself is administered to the subject. Generally, the compounds of the invention will be suspended in a pharmaceutically-acceptable carrier (e.g., physiological saline) and administered orally or by intravenous infusion, or injected subcutaneously, intramuscularly, intraperitoneally, intrarectally, intravaginally, intranasally, intragastrically, intratracheally, or intrapulmonarily. They are preferably delivered directly to an appropriate lymphoid tissue (e.g. spleen, lymph node, or mucosal-associated lymphoid tissue (MALT)). The dosage required depends on the choice of the route of administration, the nature of the formulation, the nature of the patient's illness, the subject's size, weight, surface area, age, and sex, other drugs being administered, and the judgment of the attending physician. Suitable dosages are in the range of $0.01-100.0~\mu g/kg$. Wide variations in the needed dosage are to be expected in view of the variety of polypeptides and fragments available and the differing efficiencies of various routes of administration. For example, oral administration would be expected to require higher dosages than administration by i.v. injection. Variations in these dosage levels can be adjusted using standard empirical routines for optimization as is well understood in the art. Administrations can be single or multiple (e.g., 2- or 3-, 4-, 6-, 8-, 10-, 20-, 50-,100-, 150-, or more fold). Encapsulation of the polypeptide in a suitable delivery vehicle (e.g., polymeric microparticles or implantable devices) may increase the efficiency of delivery. particularly for oral delivery.

Alternatively, a polynucleotide containing a nucleic acid sequence encoding the B7-H1 polypeptide or functional fragment can be delivered to an appropriate cell of the animal. Expression of the coding sequence will preferably be directed to lymphoid tissue of the subject by, for example, delivery of the polynucleotide to the lymphoid tissue. This can be achieved by, for example, the use of a polymeric. biodegradable microparticle or microcapsule delivery vehicle, sized to optimize phagocytosis by phagocytic cells such as macrophages. For example, PLGA (polylacto-co-glycolide) microparticles approximately 1-10 µm in diameter can be used. The polynucleotide is encapsulated in these microparticles, which are taken up by macrophages and gradually biodegraded within the cell, thereby releasing the polynucleotide. Once released, the DNA is expressed within the cell. A second type of microparticle is intended not to be taken up directly by cells, but rather to serve primarily as a slow-release reservoir of nucleic acid that is taken up by cells only upon release from the micro-particle through biodegradation. These polymeric particles should therefore be large enough to preclude phagocytosis (i.e., larger than 5μm and preferably larger than 20μm.

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Another way to achieve uptake of the nucleic acid is using liposomes. prepared by standard methods. The vectors can be incorporated alone into these delivery vehicles or co-incorporated with tissue-specific antibodies. Alternatively, one can prepare a molecular conjugate composed of a plasmid or other vector attached to poly-L-lysine by electrostatic or covalent forces. Poly-L-lysine binds to a ligand that can bind to a receptor on target cells [Cristiano et al. (1995). *J. Mol. Med.* 73, 479]. Alternatively, lymphoid tissue specific targeting can be achieved by the use of lymphoid tissue-specific transcriptional regulatory elements (TRE) such as a B lymphocyte. T lymphocyte, or dendritic cell specific TRE. Lymphoid tissue specific TRE are known [Thompson et al. (1992). *Mol. Cell. Biol.* 12, 1043-1053: Todd et al. (1993). *J. Exp. Med.* 177, 1663-1674; Penix et al. (1993). *J. Exp. Med.* 178, 1483-1496]. Delivery of "naked DNA" (i.e., without a delivery vehicle) to an intramuscular, intradermal, or subcutaneous site, is another means to achieve *in vivo* expression.

In the relevant polynucleotides (e.g., expression vectors) the nucleic acid sequence encoding the B7-H1 polypeptide or functional fragment of interest with an initiator methionine and optionally a targeting sequence is operatively linked to a promoter or enhancer-promoter combination.

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Short amino acid sequences can act as signals to direct proteins to specific intracellular compartments. For example, hydrophobic signal peptides (e.g., MAISGVPVLGFFIIAVLMSAQESWA (SEQ ID NO:6)) are found at the amino terminus of proteins destined for the ER. While the sequence KFERQ (SEQ ID NO:7) (and other closely related sequences) is known to target intracellular polypeptides to lysosomes, other sequences (e.g., MDDQRDLISNNEQLP (SEQ ID NO:8) direct polypeptides to endosomes. In addition, the peptide sequence KDEL (SEQ ID NO:9) has been shown to act as a retention signal for the ER. Each of these signal peptides, or a combination thereof, can be used to traffic the B7-H1 polypeptides or functional fragments of the invention as desired. DNAs encoding the B7-H1 polypeptides or functional fragments containing targeting signals will be generated by PCR or other standard genetic engineering or synthetic techniques.

A promoter is a TRE composed of a region of a DNA molecule, typically within 100 basepairs upstream of the point at which transcription starts. Enhancers provide expression specificity in terms of time, location, and level. Unlike a promoter, an enhancer can function when located at variable distances from the transcription site, provided a promoter is present. An enhancer can also be located downstream of the transcription initiation site. To bring a coding sequence under the control of a promoter, it is necessary to position the translation initiation site of the translational reading frame of the peptide or polypeptide between one and about fifty nucleotides downstream (3') of the promoter. The coding sequence of the expression vector is operatively linked to a transcription terminating region.

Suitable expression vectors include plasmids and viral vectors such as herpes viruses, retroviruses, vaccinia viruses, attenuated vaccinia viruses, canary pox viruses, adenoviruses and adeno-associated viruses, among others.

Polynucleotides can be administered in a pharmaceutically acceptable carrier. Pharmaceutically acceptable carriers are biologically compatible vehicles which are suitable for administration to a human. e.g., physiological saline. A therapeutically effective amount is an amount of the polynucleotide which is capable of producing a medically desirable result (e.g., an enhanced T cell response) in a treated animal. As is well known in the medical arts, the dosage for any one patient depends upon many factors, including the patient's size, body surface area, age, the particular compound to be administered, sex, time and route of administration, general health, and other drugs being administered concurrently. Dosages will vary, but a preferred dosage for administration of polynucleotide is from approximately 10^6 to 10^{12} copies of the polynucleotide molecule. This dose can be repeatedly administered, as needed. Routes of administration can be any of those listed above.

Ex Vivo Approaches

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Peripheral blood mononuclear cells (PBMC) can be withdrawn from the patient or a suitable donor and exposed *ex vivo* to an activating stimulus (see above) and a B7-H1 polypeptide or polypeptide fragment (whether in soluble form or attached to a sold support by standard methodologies). The PBMC containing highly activated T cells are then introduced into the same or a different patient.

An alternative *ex vivo* strategy can involve transfecting or transducing cells obtained from the subject with a polynucleotide encoding an B7-H1 polypeptide or functional fragment-encoding nucleic acid sequences described above. The transfected or transduced cells are then returned to the subject. While such cells would preferably be hemopoietic cells (e.g., bone marrow cells, macrophages, monocytes, dendritic cells, or B cells) they could also be any of a wide range of types including, without limitation, fibroblasts, epithelial cells, endothelial cells, keratinocytes, or muscle cells in which they act as a source of the B7-H1 polypeptide or functional fragment for as long as they survive in the subject. The use of hemopoietic cells, that include the above APC, would be particular advantageous in that such cells would be expected to home to, among others, lymphoid tissue (e.g., lymph nodes or spleen) and thus the B7-H1 polypeptide or functional fragment would

be produced in high concentration at the site where they exert their effect, i.e., enhancement of an immune response. In addition, if APC are used, the APC expressing the exogenous B7-H1 molecule can be the same APC that presents an alloantigen or antigenic peptide to the relevant T cell. The B7-H1 can be secreted by the APC or expressed on its surface. Prior to returning the recombinant APC to the patient, they can optionally be exposed to sources of antigens or antigenic peptides of interest, e.g., those of tumors, infectious microorganisms, or autoantigens. The same genetic constructs and trafficking sequences described for the in vivo approach can be used for this ex vivo strategy. Furthermore, tumor cells, preferably obtained from a patient, can be transfected or transformed by a vector encoding a B7-H1 polypeptide or functional fragment therof. The tumor cells, preferably treated with an agent (e.g., ionizing irradiation) that ablates their proliferative capacity, are then returned to the patient where, due to their expression of the exogenous B7-H1 (on their cell surface or by secretion), they can stimulate enhanced tumoricidal T cell immune responses. It is understood that the tumor cells which, after transfection or transformation, are injected into the patient, can also have been originally obtained from an individual other than the patient.

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The *ex vivo* methods include the steps of harvesting cells from a subject. culturing the cells, transducing them with an expression vector, and maintaining the cells under conditions suitable for expression of the B7-H1 polypeptide or functional fragment. These methods are known in the art of molecular biology. The transduction step is accomplished by any standard means used for *ex vivo* gene therapy, including calcium phosphate, lipofection, electroporation, viral infection, and biolistic gene transfer. Alternatively, liposomes or polymeric microparticles can be used. Cells that have been successfully transduced are then selected, for example, for expression of the coding sequence or of a drug resistance gene. The cells may then be lethally irradiated (if desired) and injected or implanted into the patient.

Methods of Screening for Compounds that Inhibit or Enhance Immune Responses

The invention provides methods for testing compounds (small molecules or macromolecules) that inhibit or enhance an immune response. Such a method can involve, e.g., culturing a B7-H1 polypeptide of the invention (or a functional fragment thereof) with T cells in the presence of a T cell stimulus (see above). Useful B7-H1 polypeptides include those with amino acid sequences identical to wild-type sequences or they can contain one or more (e.g., one, two, three, four, five, six, seven, eight, nine, 10, 12, 14, 17, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100 or more) conservative substitutions. The B7-H1 polypeptide can be in solution or membrane bound (e.g., expressed on the surface of the T cells) and it can be natural or recombinant. Compounds that inhibit the T cell response will likely be compounds that inhibit an immune response while those that enhance the T cell response will likely be compounds that enhance an immune response.

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The invention also relates to using B7-H1 or functional fragments thereof to screen for immunomodulatory compounds that can interact with B7-H1. One of skill in the art would know how to use standard molecular modeling or other techniques to identify small molecules that would bind to T cell interactive sites of B7-H1. One such example is provided in Broughton (1997) Curr. Opin. Chem. Biol. 1, 392-398.

A candidate compound whose presence requires at least 1.5-fold (e.g., 2-fold, 4-fold, 6-fold, 10-fold, 150-fold, 1000-fold, 10.000-fold, or 100.000-fold) more B7-H1 in order to achieve a defined arbitrary level of T cell activation than in the absence of the compound can be useful for inhibiting an immune response. On the other hand, a candidate compound whose presence requires at least 1.5 fold (e.g., 2-fold, 4-fold, 6-fold, 10-fold, 100-fold, 1000-fold, 10.000 fold, or 100.000-fold) less B7-H1 to achieve a defined arbitrary level of T cell activation than in the absence of the compound can be useful for enhancing an immune response. Compounds capable of interfering with or modulating B7-H1 function are good candidates for immunosuppressive immunoregulatory agents, e.g., to modulate an autoimmune response or suppress allogeneic or xenogeneic graft rejection.

B7-H1 Antibodies

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The invention features antibodies that bind to either or both of the B7-H1 polypeptides or fragments of such polypeptides. Such antibodies can be polyclonal antibodies present in the serum or plasma of animals (e.g., mice, rabbits, rats, guinea pigs, sheep, horses, goats, cows, or pigs) which have been immunized with the relevant B7-H1 polypeptide or peptide fragment using methods, and optionally adjuvants, known in the art. Such polyclonal antibodies can be isolated from serum or plasma by methods known in the art. Monoclonal antibodies that bind to the above polypeptides or fragments are also embodied by the invention. Methods of making and screening monoclonal antibodies are well known in the art.

Once the desired antibody-producing hybridoma has been selected and cloned. the resultant antibody can be produced by a number of methods known in the art. For example, the hybridoma can be cultured *in vitro* in a suitable medium for a suitable length of time, followed by the recovery of the desired antibody from the supernatant. The length of time and medium are known or can be readily determined.

Additionally, recombinant antibodies specific for B7-H1, such as chimeric and humanized monoclonal antibodies comprising both human and non-human portions, are within the scope of the invention. Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example, using methods described in Robinson et al., International Patent Publication PCT/US86/02269: Akira et al., European Patent Application 184,187: Taniguchi, European Patent Application 171,496: Morrison et al., European Patent Application 173,494: Neuberger et al., PCT Application WO 86/01533; Cabilly et al., U.S. Patent No. 4,816,567; Cabilly et al., European Patent Application 125,023; Better et al. (1988) Science 240, 1041-43; Liu et al. (1987) J. Immunol. 139, 3521-26; Sun et al. (1987) PNAS 84, 214-18; Nishimura et al. (1987) Canc. Res. 47, 999-1005; Wood et al. (1985) Nature 314, 446-49; Shaw et al. (1988) J. Natl. Cancer Inst. 80, 1553-59; Morrison, (1985) Science 229, 1202-07; Oi et al. (1986) BioTechniques 4, 214;

Winter, U.S. Patent No. 5.225.539; Jones et al. (1986) *Nature* 321, 552-25; Veroeyan et al. (1988) *Science* 239, 1534; and Beidler et al. (1988) *J. Immunol.* 141, 4053-60.

Also included within the scope of the invention are antibody fragments and derivatives which contain at least the functional portion of the antigen binding domain of an antibody that binds specifically to B7-H1. Antibody fragments that contain the binding domain of the molecule can be generated by known techniques. For example, such fragments include, but are not limited to: F(ab')₂ fragments which can be produced by pepsin digestion of antibody molecules: Fab fragments which can be generated by reducing the disulfide bridges of F(ab')₂ fragments: and Fab fragments which can be generated by treating antibody molecules with papain and a reducing agent. See, e.g., National Institutes of Health, 1 Current Protocols In Immunology. Coligan *et al.*, ed. 2.8, 2.10 (Wiley Interscience, 1991). Antibody fragments also include Fv (e.g., single chain Fv (scFv)) fragments, *i.e.*, antibody products in which there are no constant region amino acid residues. Such fragments can be produced, for example, as described in U.S. Patent No. 4.642.334 which is incorporated herein by reference in its entirety.

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The following examples are meant to illustrate, not limit, the invention.

Example 1. Materials and Methods

Cloning of hB7-H1 cDNA and construction of Ig fusion proteins. The 5' and 3' ends of hB7-H1 cDNA were amplified by PCR from a human placenta cDNA library synthesized by SMART PCR cDNA synthesis kit (Clontech. Palo Alto. CA). The primer pairs used for the PCR were derived from the placenta library plasmid and from the expressed sequence tag (EST) clone AA292201. A cDNA clone that included an orf encoding hB7-H1 cDNA was amplified by PCR from the same cDNA library by specific primers and cloned into the pcDNA3 vector (Invitrogen. Carlsbad. CA) and sequenced. The amino acid sequences of hB7-H1. B7-1 and B7-2 were analyzed using the ClustalW algorithm with BLOSUM 30 matrix (MacVector. Oxford Molecular Group). The hB7-H1Ig fusion protein was prepared by fusing the extracellular domain of hB7H-1 to the CH2-CH3 domain of mouse IgG2a in the expression plasmid pmIgV and the resulting construct was transfected into CHO cells.

An analogous method was also used for preparation of B7-11g. CTLA41g and ICOS1g fusion proteins. The fusion proteins were purified from culture supernatants by passage over a Protein G –Sepharose affinity columns (Pharmacia, Uppsala, Sweden) and the purified fusion proteins were dialyzed into endotoxin-free PBS.

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<u>DNA transfection</u>. Plasmids containing nucleic acid sequences encoding full length hB7-H1 (pcDNA3-hB7-H1). B7-1 (pCDM8-B7.1) or control parental vectors without coding sequences were transfected into 293 cells or COS cells by calcium phosphate or DEAE-Dextran transfection (Promega. Madison. WI). After 48 hours of incubation, the expression levels of hB7-H1 or B7-1 on transfectants were determined by fluorescence flow cytometry (FFC) with an antiserum specific for hB7-H1 or anti-B7-1 monoclonal antibody (mAb) (PharMingen), respectively.

Mice and cell lines. Female C57BL/6 (B6). DBA/2, and BALB/c mice were purchased from the National Cancer Institute (Frederick, MD). CD28^{-/-} mice with a B6 genetic background were kindly provided by Dr. Moses Rodrigues (Department of Immunology, Mayo Clinic, Rochester, MN). P815 mastocytoma, L1210 lymphoma. EL4 mouse T-cell lymphoma and 293 human kidney epithelial cells were purchased from the American Type Culture Collection (Manassas, VA). Cell lines were maintained in a complete medium containing RPMI-1640 (Life Technologies, Rockville, MD) supplemented with 10% fetal bovine serum (FBS) (HyClone, Logan, UT), 25 mM HEPES, penicillin G (100 U/ml) and streptomycin sulfate (100 μg/ml).

T-cell and cytokine assays. For human T cell studies. PBMC were isolated from the blood of healthy human volunteer donors by Ficoll-Hypaque gradient centrifugation. The PBMC were passed through a nylon wool column to obtain purified T cells (~85% of CD3⁺ cells), or were subjected to further purification (>95% of CD3⁺ cells) using an anti-CD4/8 MACS magnetic bead system (Miltenyl Biotec. Germany). For co-stimulation assays, purified T cells at a concentration of 1 x 10⁵ cells/well were cultured in triplicate in 96-well flat-bottomed microtiter tissue culture plates that were pre-coated overnight with antibody specific for human CD3 (HIT3a. PharMingen, Palo Alto, CA) and either hB7-H1Ig (5 μg/ml) or control Ig (purified mouse IgG2a or murine 4-1BBIg fusion protein). In some experiments, the microtiter

wells were coated with only antibody specific for CD3 and B7-1- or hB7-H1- transfected COS cells were used (10⁴ cells/well) as a source of the co-stimulatory molecules. To measure cytokine production, supernatants were collected at 24, 48 and 72 hours after initiation of the cultures and the concentrations of IL-2, IL-4, IFN-γ and IL-10 were determined by sandwich ELISA (PharMingen) according to the manufacturer's instructions. Wells containing B7-1Ig or antibody specific for human CD28 (CD28.2, PharMingen) were included for comparison or as a positive control, respectively. T cell proliferation was determined by the addition of 1.0 μCi [³H]-thymidine per well on day 2 followed by at least 18 hours of additional culture. Incorporated [³H]-thymidine was determined using a MicroBeta TriLux liquid scintillation counter (Wallac, Finland).

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For mixed lymphocyte reaction (MLR) assays, purified human T cells (2×10^5 cells/well) were co-cultured in triplicate with allogeneic human PBMC (4000 Radirradiated) at 2×10^5 cells/well in the presence of soluble hB7-H1Ig or control Ig. Four days later, T cell proliferation was determined by [3 H]-thymidine incorporation. Neutralizing mAb specific for human IL-2 (Clone MQ1-17H12, PharMingen) was added at 8 μ g/ml in the beginning of T cell cultures. Polymyxin B (10μ g/ml) was also included in the assays of cell proliferation and cytokine secretion to completely neutralize any contaminating endotoxin.

For mouse T cell studies. T cells were purified by passing lymph node or spleen cells through a nylon wool column. CD4+ or CD8+ T cells were positively selected by magnetic sorting using FITC-conjugated mAb against CD4 or CD8 and microbeads coated with antibody specific for fluorescein isothiocyanate (FITC) (MiltenyiBiotec, Auburn, CA) according to the manufacturer's instructions. The purity of isolated CD4+ and CD8+ T cells was > 95% by FFC with mAb specific for mouse CD4 and CD8, respectively. Purified T cells at 2×10^6 /ml from mouse spleens were cultured in 96-well plates that were pre-coated with mAb specific for mouse CD3 in the presence of mB7-H1lg or control mouse IgG2a ("control Ig") also coated onto the culture well bottoms. mAb specific for mouse CD28 (2.5 µg/ml) was used in soluble form as a positive control co-stimulator. Proliferation of T cells was

determined by incorporation of of [³H]-thymidine (1.0 μCi/well) added 15 h before harvesting of the 3-day cultures. [³H]-thymidine incorporation was determined by a MicroBeta TriLux liquid scintillation counter (Wallac, Turku, Finland). To detect cytokines, supernatants were collected between 18-72 h of culture and the concentrations of IFN-γ, IL-2, IL-10, IL-4, and GM-CSF were measured by sandwich ELISA following the manufacturer's (PharMingen) instructions.

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Nucleic acid analysis. Northern blot analysis of human RNA was carried out using commercially available human multiple tissue Northern blot membranes (Clontech, Palo Alto, CA). Membranes were incubated in ExpressHyb hybridization solution (Clontech) for 30 min at 68 °C. The random-primed cDNA probe was full length hB7-H1 encoding cDNA (870 bp) labeled using [³²P]-dCTP. A ³²P-labeled human β-actin cDNA probe (2.0 kb) was used as a control. Hybridization was carried out for 1 hr at 68 °C, the membranes were washed 3 times in 2 x SSC containing 0.05% SDS, and were then exposed at –80 °C to x-ray film.

Tissue distribution of mB7-H1 mRNA was carried out using commercially available multiple tissue mouse RNA dot blot membranes (Clontech) according to the manufacturer's instructions. The random-primed cDNA probe was full-length mB7-H1 encoding cDNA and was labeled using [³²P]-dCTP. The hybridization was performed for 16h at 65°C. After washing four times with 2x SSC containing 0.05% SDS, the membranes were exposed at -80°C to x-ray films.

Antibodies and fusion proteins. Rabbit antibodies against mB7-H1 protein were prepared by Cocalico Biologicals (Reamstown, PA) by immunization of rabbits with a keyhole limpet hemocyanin (KLH)-conjugated hydrophilic peptide spanning amino acids 95-119 of mB7-H1 ("peptide 95-119")

(GNAALQITDVKLQDAGVYCCIISYG) (SEQ ID NO:16). Polyclonal antibody was purified from rabbit serum using an affinity column containing insoluble matrix material conjugated with the peptide 95-119. Both ELISA and FFC analysis of COS cells transfected with an expression vector containing cDNA encoding mB7-H1 demonstrated that the polyclonal antibody bound specifically to mB7-H1. Purified mAb specific for mouse CD3 and mouse CD28 and FITC-conjugated mAb specific

for mouse CD4, mouse CD8, and mouse CD40L, phycoerythrin (PE)-conjugated mAb specific for mouse CD3, mouse B220 and mouse Mac-1 were purchased from PharMingen (SanDiego, CA). FITC-conjugated goat antibody specific for rabbit IgG was purchased from Southern Biotechnology Associates (Birmingham, AL). Purified rabbit IgG and hamster IgG were purchased from Rockland (Gilbertsville, PA).

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To prepare the mB7-H1Ig fusion protein, cDNA encoding the mB7-H1 extracellular domain was generated by RT-PCR using the sense primer 5'-CAGGAATTCACCATGAGGATATTTGCTG-3' (SEQ ID NO:17) and the anti-sense primer 5'-CATCAGATCTATGTGAGTCCTGTTCTGTG-3' (SEQ ID NO:18) from mouse T cell mRNA. After digestion with EcoRl and BglII. the PCR products were fused to the CH2-CH3 domain of mouse IgG2a heavy chain in the expression plasmid pmIgV [Dong et al. (1999) *Nature Med.* 5. 1365-1369]. The resulting plasmid. pmB7-H1Ig, was transfected into CHO cells. Stably transfected cells were cultured in serum-free CHO media (Life Technologies). The mB7-H1Ig in the supernatants was purified using a protein G-Sepharose column (Pierce. Rockford, IL) and dialyzed into LPS-free PBS. The endotoxin concentration was less than 1 pg/mg of purified protein according to the limulus amebocyte lysate assays (CAPE COD. Woods Hoke. MA). The mB7-IIg fusion protein containing the extra cellular domain of mB7-1 fused to the Ch2-CH3 domain of mouse IgG-2a heavy chain was prepared by an analogous method.

Fluorescence flow cytometry analysis. To prepare an antiserum specific for hB7-H1, mice were immunized with purified hB7-H1Ig emulsified in complete Freund's adjuvant (Sigma) and boosted three times with hB7-H1Ig in incomplete Freund's adjuvant. Serum was collected and the specificity was determined by ELISA and by FACS staining (1:1000 dilution) of hB7-H1 cDNA-transfected 293 cells or COS cells. Pre-injection mouse serum was used as a control.

To prepare activated human T and B cells, freshly isolated human PBMC (10x 10⁶ cells/ml) were activated with 5 μg/ml of PHA (Sigma) or 10 μg/ml of LPS (Sigma), respectively. For preparation of activated monocytes, adherent PBMCs were cultured in 1,500 IU/ml of recombinant human IFN-γ (Biosource, Camarillo, CA) and

100 ng/ml of LPS. All cultures were harvested and analyzed at 48 hours. For direct immunofluorescence staining. T cells were incubated at 4 °C with 1 μg of either fluorescein- (FITC) or phycoerythrin- (PE) conjugated mAb for 30 min and analyzed by FACScan flow cytometry (Becton Dickinson, Mountain View, CA) with Cell Quest software (Becton Dickinson) as described previously. The mAb specific for CD3 (UCHT1), CD4 (RPA-T4), CD8 (RPA-T8), CD14 (M5E2), CD19 (B43), CD28 (CD28.2), CD80 (BB1) were purchased from PharMingen. For indirect immunofluorescence staining, cells were first incubated with anti-hB7-H1 antibody (1:1000), 5 μg of ICOSIg or CTLA4lg at 4 °C. After 30 min, the cells were washed and further incubated with FITC- (Biosource, Camarillo, CA) or PE-conjugated (Southern Biotechnology Associates, Inc., Birmingham, AL) goat anti-human or anti-mouse IgG F(ab²) 2 for 30 min at 4 °C. The human or mouse IgG1 protein (Sigma) or mouse 4-1BBIg (mouse 4-1BB extracellular domain fused with the Fc of human IgG1 or mouse IgG2a) was used as control Ig. In some experiments. Fc receptors were blocked by human or mouse Ig before incubation with FITC- or PE-conjugated mAbs.

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For indirect immunofluorecence analysis of mouse cells, the cells were incubated with the antibodies at 4°C for 30 min in the presence of blocking mAb specific for CD16/32 (Fc receptor) (Pharmingen). The cells were washed and further incubated with FITC-conjugated anti-rabbit IgG. The cells were then stained with PE-conjugated mAb specific for mouse CD3, mouse B220, or mouse Mac-1. Fluorescence was analyzed with a FACS Calibur flow cytometer and analyzed with Cell Quest software (Becton Dickinson, Mountain View, CA). To prepare activated mouse T cells, nylon-wool-purified mouse T cells (>75% CD3* cells) at a concentration of 2 x 106/ml were cultured with mAb specific for mouse CD28 (5 μg/ml) and mouse CD3 (5 μg/ml). For preparation of activated mouse B cells, mouse splenocytes were cultured with LPS (10 μg/ml; Sigma, St. Louis, MO). Mouse macrophages were obtained from the peritoneal cavities of mice which had been injected with thioglycollate 7 days before. For activation, the mouse peritoneal exudate cells (PEC) were cultured with IFN-γ (10 U/ml) and LPS (100 ng/ml). All cultures were harvested and the cells analyzed at 48 h. To detect CD40L expression.

CD4⁺ T cells were purified by magnetic sorting (see above), cultured as indicated, and incubated with FITC-conjugated mAb to CD40L.

Cytotoxic T-lymphocyte (CTL) generation. To generate alloantigen-specific CTL activity *in vitro*. nylon wool purified T cells (2.5 x 10⁶/ml) from B6 splenocytes were stimulated in 24-well tissue culture plates with irradiated (10.000 rads) mock.P815. mB7-1⁺ P815. or mB7-H1⁺ P815 cells (2.5 x 10⁵/ml) for 5 days. After the 5-day stimulation. CTL activities against P815 (H-2^d) and EL4 (H-2^h) were measured in a standard ⁵¹Cr release assay [Chen et al. (1994) *J. Exp. Med.* 179, 523-532: Li et al. (1996) *J. Exp. Med.* 183, 639-644].

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To generate tumor-specific CTL activity *in vivo*. DBA/2 mice were inoculated subcutaneously (s.c.) with 1 x 10⁶ mock.P815, mB7-1⁺ P815, or mB7-H1 P815 cells. The draining lymph nodes were removed 7-10 d after tumor injection and the suspended lymph node cells (3 x 10^6 /ml) were re-stimulated in 24 well tissue culture plates with wild type irradiated (10,000 rads) P815 cells (3 x 10^5 /ml) for 5 days. The cells were harvested and their CTL activity was measured in a standard ⁵¹Cr release assay against wild type P815 tumor target cells.

In vivo induction and assav of TNP-specific antibody. Trinitrophenol (TNP) conjugated to KLH (TNP-KLH: 100 µg/mouse) (Biosearch Technologies. Novato. CA) in phosphate buffered saline (PBS) was injected i.p. into B6 mice on day 0. (In days 1 and 4, the mice were injected i.p. with 100 µg of control lg. mB7-11g, or mB7-H11g. Sera were collected on days 7 and 14. To measure TNP-specific antibodies in the sera, 0.3 mg/ml TNP-BSA (Biosearch Technologies) was coated onto the well-bottoms of 96-well ELISA plates overnight at 4°C. Non-specific binding sites in the ELISA plates were blocked with 10% FBS in PBS for 90 min at room temperature. After extensive washing, samples (diluted by 1/200-1/2000) with PBS) were added and incubated for 2 h. The plates were then washed and biotinylated rat antibodies specific for mouse IgM, IgG1, IgG2a, IgG2b, or IgG3 (PharMingen) were added to the wells. The plates were further incubated for 1 h at room temperature. After washing the plates, horseradish peroxidase (HRP)-conjugated streptavidin (Caltag Laboratories, Burlingame, CA) was added to the wells and the plates were incubated

for 1 h at room temperature. The plates were washed and the solutions in all wells was measured. 3.3'.5.5'-tetramethyl-benzidine substrate (Sigma) was added to the wells. The OD₄₅₀ for the solutions in all wells was measured.

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T cell proliferation in response to KLH. B6 mice were immunized with 100 μg TNP-KLH in IFA s.c. or in PBS i.p. on day 0 and were injected i.p. with 100 μg of either mB7-H1Ig or control Ig on days 1 and 4. To detect T cell responses to KLH. draining lymph nodes and spleens were removed from immunized mice on day 7 and 14. respectively. Suspended lymph node or spleen cells were cultured with KLH at 1.56-100 μg/ml as indicated. T cell proliferation in response to KLH was determined by addition of 1 μCi/well [³H]-thymidine 15 h before harvesting of the 3-day cultures. [³H]-thymidine incorporation was measured with a MicroBeta TriLux liquid scintillation counter (Wallac).

Example 2. Molecular cloning and expression pattern of the hB7-H1 gene

A homology search of the human cDNA EST database using published human B7-1 and B7-2 amino acid sequences revealed an EST sequence (GeneBank #AA292201) encoding a homologue to human B7-1 and B7-2 molecules. The 5'- and 3'- sequences were obtained by several independent reverse transcriptase-coupled polymerase chain reactions (RT-PCR) from a human placenta cDNA library utilizing vector and EST sequences as primers. A 3.616 bp fragment that included the hB7-H1 encoding orf was cloned and sequenced (SEQ ID NO:5) (FIG. 1). The coding sequence for hB7-H1 (SEQ ID NO:2) spans nucleotides 72-951 of SEQ ID NO:5. The amino acid sequence of full-length hB7-H1 (SEQ ID NO:1) is shown in FIG. 2a. The extracellular domain of hB7-H1 has greater homology to B7-1 (20% amino acid identity) than to B7-2 (15%) (Fig. 2b) whereas its cytoplasmic domain is highly divergent from that of B7-1 and B7-2 based on analysis using the McVector 6.5 software. The open reading frame of the gene encodes a type I transmembrane protein of 290 amino acids consisting of a 22 amino acid signal peptide. Ig V-like domain, and lg C-like domains, a hydrophobic transmembrane domain and a evtoplasmic tail of 30 amino acids (FIG. 2a). Four structural cysteines (labeled by stars in FIG. 2b), which are apparently involved in forming the disulfide bonds of the

lg V and Ig C domains are well conserved in all B7 members (FIG. 2b) [Fargeas. C.A. et al. (1995) *J. Exp. Med.* 182, 667-675; Bajorath, J. et al. (1994) *Protein Sci.* 3, 2148-50; Linsley. P.S. et al. (1994) *Immunity* 1, 793-801; Inaba. K. et al. (1994) *J. Exp. Med.* 180, 1849-60; Freeman. G. J. et al. (1995) *Immunity* 2, 523-532]. In addition. the tyrosine residue in B7-1 (at position 87) and in B7-2 (at position 82) of the Ig V-like domain is conserved in hB7-H1 (at position 81) (FIG. 2b).

Northern blot analysis revealed that expression of the hB7-H1 mRNA was abundant in heart, skeletal muscle, placenta and lung but was weak in thymus, spleen, kidney and liver (FIG. 3). The hB7-H1 mRNA was not detectable in brain, colon, small intestine and peripheral blood mononuclear cells (PBMC). In most of the tissues in which hB7-H1 mRNA was detectable, two transcripts of approximately 4.1 and 7.2 kb were found.

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An expression plasmid containing the extracellular domain of hB7-H1 fused in frame with the Fc portion (CH2 and CH3-domains) of the mouse IgG2a was constructed. The resulting product, hB7-H1Ig fusion protein, was purified from the supernatants of CHO cells transfected with the plasmid and was used for immunization of the mice to prepare a hB7-H1-specific antiserum. Fluorescence flow cytometry analysis using the hB7-H1-specific antiserum showed that freshly isolated CD3+ T and CD19+ B cells express negligible levels of hB7-H1 while a fraction (~16%) of CD14+ monocytes constitutively express hB7-H1. hB7-H1 can, however, be up-regulated by cell activation. Approximately 30% of PHA-treated CD3+ T cells and 90% of CD14+ monocytes (treated with IFN- \Box and LPS) express hB7-H1. Only 6% of CD19+ B cells after LPS activation express hB7-H1 (FIG. 4). Confirmatory results were obtained by RT-PCR analysis.

Transfection of the plasmid pcDNA3-hB7-H1 into 293 cells (B7-H1/293 cells) led to the expression of hB7-H1 as detected by hB7-H1-specific antiserum (FIG. 5a). The binding of antibody was eliminated by the inclusion of soluble hB7-H1Ig in the staining mixture (FIG. 5a. arrow). thereby demonstrating specificity of the antiserum. Neither CTLA4Ig nor ICOSIg bound to hB7-H1/293 cells. Although both CTLA4Ig and ICOSIg bound to Raji cells, the binding was not blocked by the inclusion of hB7-

H1Ig (FIG. 5a, arrows). Taken together with the observation that hB7-H1Ig did not bind to Jurkat cells (FIG. 5b, right panel), despite their constitutive expression of CD28 (FIG. 5b, left panel), the above results indicate that hB7-H1 is not a ligand for CD28, CTLA-4, or ICOS.

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Example 3. Co-stimulation of T cell proliferation by hB7-H1

To assess whether hB7-H1 co-stimulates T-cell growth. T cells purified (>95% purity) from PBMC of healthy human donors were stimulated with hB7-H1Ig in the presence of suboptimal doses of mAb specific for human CD3. T cell proliferation in 3-day cultures was determined by incorporation of [³H]-thymidine. hB7-H1Ig. immobilized on culture plates, enhanced T cell proliferation up to 10-fold compared to the control Ig in the presence of 5-20 ng/ml of mAb specific for human CD3, also immobilized on the culture plates. In the absence of mAb specific for human CD3, hB7-H1Ig at a concentration up to 5 μg/ml induced no T cell proliferation (FIG. 6α). If hB7-H1Ig was included in the cultures without immobilization, its co-stimulatory effect was significantly decreased. Consistent with this observation, the inclusion of soluble hB7-H1Ig at levels of 0.6-5 μg/ml in allogeneic MLR moderately (~2-fold) increased the proliferation of T cells (FIG. 6b). Thus, hB7-H1 can promote and co-stimulate proliferative responses of T cells to polyclonal T cell stimuli and to allogeneic antigens.

Example 4. hB7-H1 co-stimulation preferentially induces the production of IL-10 and the co-stimulatory effect requires IL-2

The levels of IL-2. IL-4. IFN-γ and IL-10 produced by T cells after costimulation with hB7-H1Ig. B7-1Ig, or mAb specific for human CD28 in the presence of mAb specific for human CD3 (FIG. 7a-7d) were measured. Similar to B7-1Ig and anti-CD28, immobilized hB7-H1Ig antibody dramatically increased the production of IL-10 by T cells in response to immobilized mAb specific for human CD3 after stimulation for 48 and 72 hours (FIG. 7a). IL-10 was not detected if T cells were co-

stimulated with immobilized control Ig. The level of IFN- γ was also significantly elevated by co-stimulation with immobilized hB7-H1Ig (FIG. 7b). In contrast to B7-IIg and mAb specific for human CD28, hB7-H1Ig co-stimulated low or negligible levels of IL-2 (FIG. 7c) and IL-4 (FIG. 7d), respectively. These observations were reproducible in six independent experiments. These results show that co-stimulation by hB7-H1 preferentially stimulates the production of IL-10.

The production of IL-2. although low, peaked at 24 hours upon hB7-H1 costimulation (FIG. 7c), while IL-10 secretion started to increase only after 48 and 72 hours (FIG. 7a). Increasing concentrations of hB7-H1Ig led to a small increase (< 1 ng/ml) of IL-2 secretion (FIG. 7e). To determine the roles of the early-produced IL-2, the effects of mAb specific for human IL-2 on T cell proliferation and IL-10 production in B7H-mediated co-stimulation were tested. Similar to T cell proliferation induced by B7-1-COS cells and immobilized mAb specific for human CD3. T cell proliferation induced by hB7-H1-COS cells and mAb specific for human CD3 was blocked by inclusion of mAb specific for human IL-2 (FIG. 8a). Furthermore, IL-10 secretion from hB7-H1Ig-co-stimulated T cells was also inhibited by mAb specific for human IL-2 (FIG. 8b). Therefore, the hB7-H1 co-stimulation of both T cell growth and IL-10 secretion is an IL-2-dependent process.

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Example 5. hB7-H1 co-stimulation increases apoptosis of activated T cells.

To determine the effect of hB7-H1 ligation on the viability of activated T cells, the proportion of live T cells remaining after activation with an optimally activating dose of mAb specific for human CD3 in the presence of immobilized hB7-H1Ig was determined by trypan blue staining. A consistent decrease of live T cells was observed. At the end of culture, T cells were stained with annexin V and propidium iodide (PI) to distinguish the early phase and late phase of apoptosis, respectively. The apoptotic cells in early phase (annexin V-positive, PI-negative) were significantly increased to 24.8 % in the presence of hB7-H1Ig compared to 14.2 % in the absence of hB7-H1Ig in 5 experiments (P = 0.001). A representative experiment is shown in FIG. 9a (upper panel). Similar results were obtained using

hB7-H1Ig-treated Jurkat cells (control Ig: 38.3% vs. hB7-H1Ig: 54.6%) (FIG. 9a. lower panel). The increased apoptosis was associated with upregulation of Fas and FasL expression on hB7-H1 co-stimulated T cells (FIG. 9b). These results indicated that hB7-H1 co-stimulation increased activation-induced T cell apoptosis moderately. and the increased apoptosis was associated with elevated expression of Fas and FasL.

Example 6. Production of monoclonal antibodies specific for hB7-H1.

Using standard protocols. BALB/c mice were immunized with purified hB7-H1Ig and splenocytes from the immunized mice were fused with X63-AG8.653 mouse myeloma cells. Five hybridoma lines were found to secrete antibodies specific for hB7-H1 in that, as detected by fluorescence flow cytometry, culture supernatants from these hybridoma lines positively stained hB7-H1/293 cells but did not stain control vector/293 cells. Furthermore, some of the antibodies inhibited the costimulatory activity of hB7-H1.

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Example 7. Molecular Cloning and expression pattern of a mouse B7-H1 (mB7-H1) gene

Starting with two overlapping mouse EST clones (AA823166 and AA896104), and using a strategy similar to that for the hB7-H1 gene, a cDNA fragment that included an orf encoding mB7-H1 was cloned. The coding sequence for mB7-H1 (SEQ ID NO:4) (FIG. 10) was obtained and the amino acid sequence of mB7-H1 (SEQ ID NO: 3) (FIG. 11) was derived from it. The length of mB7-H1 is identical to that of hB7-H1 and it has the same conserved cysteine residues found in hB7-H1 (see Example 2). A cDNA fragment encoding full-length mB7-H1 was cloned into the pcDNA3 vector (Invitrogen, Carlsbad, CA) to give mB7-H1.pcDNA3.

mB7-H1. like hB7-H1. is a type I transmembrane protein of 290 amino acids that has 69% overall amino acid homology to hB7-H1 (FIG. 12a). Similar to other members of B7 family, mB7-H1 consists of an Ig V-like domain, an Ig C-like domain, a hydrophobic transmembrane domain and a cytoplasmic tail. mB7-H1

shares 20% homology to mouse B7-1. 14% to mouse B7-2, and 19% to mouse B7h/B7RP-1, based on analysis using McVector 6.5 software (Clustal W Program) (FIG. 12b).

RNA analysis revealed that mB7-H1 mRNA is abundant in mouse heart. spleen, lung, skeletal muscle and liver, and less abundant but present in mouse kidney, liver, thymus, and thyroid. Thus, the expression pattern of mB7-H1 mRNA is similar to that of human B7-H1 mRNA. Negligible expression of the mB7-H1 mRNA was observed in pancreas and testis.

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FFC analysis using the anti-mB7-H1 antibody showed that resting mouse CD3⁺ T cells do not express mB7-H1 (FIG. 13. upper panel). However, a small fraction of B220⁺ mouse B cells and Mac-1⁻ mouse macrophages expressed a low level of mB7-H1 (FIG. 13. upper panel). Stimulation of mouse T cells with antibodies specific for mouse CD3 and mouse CD28 moderately increased the mB7-H1 expression on T cells. Activation of mouse B cells with LPS and macrophages with LPS plus IFN-γ significantly increased the expression of mB7-H1 on their surfaces (FIG.13. lower panel). Thus, mB7-H1, like hB7-H1, is an inducible cell surface molecule.

Example 8. Co-stimulation of mouse T cell proliferation by mb7-H1.

To investigate the costimulatory effect of mB7-H1, nylon-wool purified mouse T cells were activated with a suboptimal dose of mAb specific for mouse CD3 (coated onto culture well bottoms at a concentration of 200 ng/ml) and co-stimulated with various concentrations of mB7-H1lg. mB7-H1lg enhanced T cell proliferation by up to 5-fold compared to control Ig (FIG. 14a). The costimulatory effect of the mB7-H1lg was dose-dependent and dependent on the presence of mAb specific for mouse CD3 since in the absence of mAb specific for mouse CD3, mB7-H1lg (up to a concentration of mB7-H1lg 10 µg/ml) failed to stimulate the proliferation of T cells. When nylon-wool purified mouse T cells were cultured with 293 cells transfected with either mB7-H1.pcDNA3 or control vector in the presence of suboptimal doses of mAb specific for mouse CD3, mB7-H1-transfected 293 cells also enhanced T cell

proliferation substantially compared to the T cell proliferation in the presence of the control vector-transfected 293 cells. Thus, similar to hB7-H1, mB7-H1 costimulates T cell proliferation.

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The role of CD28 in mB7-H1 costimulation was evaluated by comparing the effects of mB7-H1lg costimulation on T cells isolated from CD28^{-/-} mice and from normal mice. Nylon wool purified mouse T cells were activated with two suboptimal doses of antibody specific for mouse CD3 (coated onto the well bottoms of 96 well tissue culture plates at a concentration of 0.125 μg/ml or 0.25 μg/ml) and either soluble antibody specific for mouse CD28 (2.5 μg/ml) or mB7-H1lg or control lg (both coated onto the well bottoms of 96 well tissue culture plates at a concentration of 10 μg/ml). As shown in FIG. 14b, while there was no co-stimulatory effect of anti-CD28 mAb on CD28^{-/-} T cells. mB7-H1lg induced the proliferation of both CD28^{-/-} (FIG. 14b, right panel) and CD28^{-/-+} ("wt": FIG. 14b, left panel) T cells to a similar degree. Therefore, mB7-H1 can costimulate T cell growth in a CD28-independent fashion.

In order to test whether mB7-H1 preferentially co-stimulates CD4⁺ or CD8⁺ T cells. purified CD4⁺ and CD8⁺ T cells were stimulated with mB7-H1Ig (same concentration as in the experiment shown in FIG. 14b) and mAb specific for mouse CD3 (coated onto the well bottoms of 96 well tissue culture plates at a concentration of 200 ng/ml). Proliferation of CD4⁺ T cells was enhanced about 10 fold by mB7-H1Ig and the proliferation of CD8⁺ T cells was only enhanced 2-3 fold mB7-H1Ig (FIG. 14c). Thus, the co-stimulatory effect of mB7-H1 is more potent on CD4⁺ T cells than on CD8+ cells.

Example 9. Co-stimulation of cytokine production by mB7-H1.

The levels of IL-10, IFN-γ. IL-2, IL-4 and GM-CSF produced by T cells activated with mAb specific for mouse CD3 and co-stimulated with either mB7-H1Ig or anti-CD28 mAb were measured. FIG. 15a shows that mB7-H1Ig, similar to mAb specific for mouse CD28, co-stimulates the production of high levels of IL-10 in the day 3 cultures. IL-10 was not detectable at day 3 when T cells were treated with

either control Ig and mAb specific for mouse CD3 or mAb specific for mouse CD3 alone. mB7-H1 and mAb specific for mouse CD28 enhanced the production of IFN-y and GM-CSF. In contrast to mAb specific for mouse CD28, which induced high levels of IL-2 and IL-4, mB7-H1Ig induced no or negligible levels of IL-2 and IL-4 at all time points (FIG. 15a). Thus, mB7-H1 and hB7-H1 co-stimulate the production of a similar spectrum of cytokines.

Since IL-2 was undetectable in culture supernatants from mB7-H1lg costimulated cultures, it seemed possible that mB7-H1 ligation inhibited IL-2 secretion. To test this possibility, the effect of mB7-H1 on IL-2 secretion by T cells activated by mAb specific for mouse CD3 and co-stimulated with mAb specific for mouse CD28 was tested. FIG. 15b shows that inclusion of immobilized mB7-H1lg (at concentrations up to 10 µg/ml) in the culture resulted in a small decrease in IL-2 production during the 18-48 h culture period that was statistically insignificant: in several repeat experiments no statistically significant decrease was ever seen. Similarly, mB7-H1lg did not inhibit IL-2 production in cultures in which T cells were activated by mAb specific for mouse CD3 alone (FIG. 15b). The results thus indicate that mB7-H1 ligation does not inhibit the production of IL-2.

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Example 10. Expression of mB7-H1 on transfected P815 tumor cells and decreased growth rate of the transfected P815 cells in mice.

Mouse (DBA/2) P815 mastocytoma cells were stably transfected with the expression plasmid (mB7-H1.pcDNA3) containing the coding sequence for mB7-H1 using FUGENETM (Roche, Mannheim, Germany) according to the manufacturer's instructions. The transfected cells were selected in complete medium containing G418 (1 mg/ml; Life Technologies) and were subsequently cloned by limiting dilution. mB7-H1 expressing P815 cells were identified by FFC using the above-described anti-mB7-H1 polyclonal antibody preparation. A representative clone (mB7-H1⁺ P815) was selected for further studies. P815 clones transfected with the pcDNA vector (mock.P815) or MB7-1 (mB7-1⁺ P815) were generated similarly [Chen et al. (1994) *J. Exp. Med.* 179, 523-532]. Using a PE-conjugated rat polyclonal

antibody specific for mB7-H1 ("anti-mB7H/PE"), mB7-H1 expression was detected by FFC on the mB7H-H1⁺ P815 cells (FIG. 18b) but not on either mock transfected P815 cells ("mock.P815") (FIG. 16b) or P815 cells transfected with a construct encoding murine B7-1 ("mB7-1⁺ P815") (FIG. 17b). On the other hand, the mB7-1 P815 cells were stained with a FITC-conjugated mAb specific for murine B7-1 ("anti-mB7-1-FITC") (FIG. 17a). Furthermore, inclusion of the mB7-H1 peptide used to make the polyclonal anti-mB7-H1 antibody in the staining reaction mixture completely blocked binding of the polyclonal anti-mB7-H1 antibody to the mB7-H1 P815 cells.

Groups (5 mice per group) of DBA/2 mice were injected subcutaneously (s.c.) with either 2x10⁵ mock.P815 or mB7-H1⁺ P815 cells. The growth rate of the mock.P815 cells was significantly greater in 4 out of 5 injected mice (FIG. 19a) than in the 5 mice injected with mB7-H1⁺ P815 (FIG 19b). These findings indicate that the mB7-H1⁺ P815 cells were significantly more immunogenic than mock.P815 cells and, therefore, that expression of mB7-H1 expression by P815 cells enhances their ability to elicit protective immunity.

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Example 11. mB7-H1 costimulation fails to enhance allogeneic and syngeneic CTL responses

To examine the effect of mB7-H1 on the generation of allogeneic CTL *in vitro*, nylon wool-purified T cells from B6 mice (H-2^b) were co-cultured with irradiated mock.P815 (H-2^d), mB7-1⁺ P815, or mB7-H1⁺ P815 cells for 5 days and the CTL activity of cells harvested from the cultures was tested against wild-type P815 target cells in standard ⁵¹Cr release assays at the indicated effector to target cell ratios ("E/T ratio"). As depicted in FIG. 20a, mB7-H1⁺ P815 cells and mock.P815 cells were poor stimulators of CTL activity. In contrast, mB7-1⁺ P815 cells elicited strong P815-specific CTL activity. The CTL induced by mB7-1 were alloantigen-specific since they did not lyse responder (B6) H-2 haplotype (H-2^b) EL4 tumor target cells. Thus, mB7-H1 expression does not facilitate the generation of allogeneic CTL.

The ability of mB7-H1⁺ P815 cells to stimulate P815 tumor specific CTL *in vivo* was tested. DBA/2 mice were injected s.c. with mock P815, mB7-1⁺ P815, or mB7-H1⁺ P815 cells. Tumor-draining lymph nodes were removed 7 days later and T cells isolated from them were cultured with wild-type P815 cells for 5 days. Cells harvested from the cultures were tested for CTL activity against wild-type P815 target cells in a standard ⁵¹Cr release assay at the indicated E/T ratios (FIG. 20b). Effector cells from mice injected with mB7-H1⁺ P815 showed slightly increased CTL activity against P815 cells compared to effector cells from the mock P815-injected mice: this difference in CTL activity was however statistically insignificant. In contrast, mB7-1⁺ P815 cells elicited strong CTL activity. CTL activity was P815 tumor-specific since syngeneic L1210 tumor target cells were not lysed. Thus, expression of mB7-H1 in P815 cells does not enhance the induction of CTL activity against P815 tumor antigens.

<u>Example 12. B7-H1 costimulation amplifies antigen-specific T helper cell</u> responses. T cell-dependent humoral responses, and expression of CD40L on T cells

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To investigate the effect of mB7-H1 costimulation on T helper cell function. B6 mice were immunized with TNP-conjugated KLH on day 0. and were injected with mB7-H1Ig at day 1 and day 4. The *in vitro* proliferative responses of T cells obtained from both lymph nodes and spleens of the immunized mice to various concentrations of KLH were measured. As shown in FIG. 21. T cells from both spleens and lymph nodes of TNP-KLH-immunized mice proliferated in response to KLH in a dose dependent fashion. Administration of mB7-H1Ig to TNP-KLH-immunized mice amplified the subsequent *in vitro* proliferative responses of T cells by up to 2-3 fold. These results indicate that mB7-H1 co-stimulation enhances T helper cell responses *in vivo*.

The effect of mB7-H1 co-stimulation on the generation of antigen-specific antibodies to TNP was investigated in a system well recognized as measuring helper T cell-dependent antibody responses [Marrack and Kappler (1975) *J. Immunol.* 114. 1116-1125; Romano et al. (1975) *Proc. Natl. Acad. Sci. U.S.A* 72, 4555-4558]. Thus,

the level of antibodies specific for TNP in the sera of mice immunized with TNP-KLH was measured after treatment with control Ig. mB7-Hg, or mB7-Hlg. In preliminary experiments, a significant increase in the total anti-TNP IgG level was observed in sera of mice immunized with TNP-KLH and treated with mB7-Hllg compared to sera of mice immunized with TNP-KLH and treated with control mlg. The relative levels of IgM and individual IgG subclass (IgG1, IgG2a, IgG2b and IgG3) anti-TNP antibodies elicited by TNP-KLH immunization and various costimulations were each measured. As shown in FIG. 22, the amount of TNP-specific IgG2a antibody was increased significantly in the sera of mice immunized with TNP-KLH and treated with mB7-Hllg. The effect was different from that elicited by mB7-Hlg in which the levels of antibodies specific for TNP of other IgG subclasses (IgG1 and IgG2b) were also significantly increased (FIG. 22). Thus, mB7-H1 costimulation enhances T helper cell proliferation and T helper-dependent antibody responses.

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The CD40-CD40 ligand (CD40L) interaction in T helper cell-B cell interactions is critical for the generation of antibody responses and for Ig class switching [Calderhead et al. (2000) *Curr. Top. Microbiol. Immunol.* 245, 73-99]. The effect of co-stimulation with mB7-H1Ig on the level of CD40L on T cells was investigated. Purified CD4+ T cells from B6 mice were stimulated with a suboptimal concentration of mAb specific for mouse CD3 in the presence of mB7-H1Ig or mAb specific for mouse CD28. Expression of CD40L on T cells was detected with a mAb specific for mouse CD40L by FFC. mB7-H1Ig co-stimulation upregulated CD40L rapidly (25.3% after 4 h incubation) compared to co-stimulation with control IgG (6.6%) or antibody specific for mouse CD28 (10.5%) (FIG. 23a). The level of CD40L was also higher after 24 h on T cells co-stimulated with mB7-H1Ig than on T cells co-stimulated with the either control Ig or mB7-11g (FIG. 23a). Similar results were obtained using an optimal dose of mAb specific for mouse CD3 for activation (FIG. 23b). Thus, triggering of the B7-H1 counter-receptor on T cells rapidly upregulates the expression of CD40L.

Although the invention has been described with reference to the presently preferred embodiment, it should be understood that various modifications can be made without departing from the spirit of the invention. Accordingly, the invention is limited only by the following claims.

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What is claimed is:

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- 1. An isolated DNA comprising:
- (a) a nucleic acid sequence that encodes a polypeptide with the ability to co-stimulate a T cell, wherein the nucleic acid sequence hybridizes under stringent conditions to the complement of a sequence that encodes a polypeptide with an amino acid sequence with SEQ ID NO:1 or SEQ ID NO:3; or
 - (b) the complement of the nucleic acid sequence.
 - 2. The DNA of claim 1, wherein the nucleic acid sequence encodes a polypeptide comprising an amino acid sequence with SEQ ID NO:1.
- The DNA of claim 1, wherein the nucleic acid sequence encodes a polypeptide comprising an amino acid sequence with SEQ ID NO:3.
 - 4. The DNA of claim 1, wherein the nucleic acid sequence has a sequence of SEQ ID NO:2.
- 5. The DNA of claim 1, wherein the nucleic acid sequence has a sequence of SEQ ID NO:4.
 - 6. An isolated polypeptide encoded by the DNA of claim 1.
 - 7. The isolated polypeptide of claim 6, wherein the polypeptide comprises an amino acid sequence of amino acid residue 23 to amino acid residue 290 of SEQ ID NO:1, or said amino acid sequence but differing solely by conservative substitutions.
 - 8. The isolated polypeptide of claim 6, wherein the polypeptide comprises an amino acid sequence of amino acid residue 23 to amino acid residue 290 of SEQ ID NO:3, or said amino acid sequence but differing solely by conservative substitutions
- 9. The isolated polypeptide of claim 6, wherein the polypeptide comprises an amino acid sequence of SEQ ID NO:1, or said amino acid sequence but differing solely by conservative substitutions.

10. The isolated polypeptide of claim 6, wherein the polypeptide comprises an amino acid sequence of SEQ ID NO:3. or said amino acid sequence but differing solely by conservative substitutions.

- 11. A vector comprising the DNA of claim 1.
- The vector of claim 11, wherein the nucleic acid sequence is operably linked to a regulatory element which allows expression of said nucleic acid sequence in a cell.
 - 13. A cell comprising the vector of claim 11.
- 14. A method of co-stimulating a T cell, the method comprising contacting the T cell with the polypeptide of claim 6.
 - 15. The method of claim 14. wherein the contacting comprises culturing the polypeptide with the T cell *in vitro*.
 - 16. The method of claim 14, wherein the T cell is in a mammal.
- 17. The method of claim 16. wherein the contacting comprises administering the polypeptide to the mammal.
 - 18. The method of claim 16, wherein the contacting comprises administering a nucleic acid encoding the polypeptide to the mammal.
 - 19. The method of claim 16. comprising:
- (a) providing a recombinant cell which is the progeny of a cell obtained from the mammal and has been transfected or transformed ex vivo with a nucleic acid encoding the polypeptide so that the cell expresses the polypeptide; and
 - (b) administering the cell to the mammal.
 - 20. The method of claim 19, wherein the cell is an antigen presenting cell (APC) and the cell expresses the polypeptide on its surface.
- 25 21. The method of claim 20, wherein, prior to the administering, the APC is pulsed with an antigen or an antigenic peptide.

22. The method of claim 16, wherein the mammal is suspected of having an immunodeficiency disease.

- 23. The method of claim 16. wherein the mammal is suspected of having an inflammatory condition.
- 5 24. The method of claim 16. wherein the mammal is suspected of having an autoimmune disease.
 - 25. A method of identifying a compound that inhibits an immune response. the method comprising:
 - (a) providing a test compound:
- 10 (b) culturing, together, the compound, the polypeptide of claim 6, a T cell, and a T cell activating stimulus; and
 - (c) determining whether the test compound inhibits the response of the T cell to the stimulus, as an indication that the test compound inhibits an immune response.
 - 26. The method of claim 25, wherein the stimulus is an antibody that binds to a T cell receptor or a CD3 polypeptide.
 - 27. The method of claim 25, wherein the stimulus is an alloantigen or an antigenic peptide bound to a major histocompatibility complex (MHC) molecule on the surface of an antigen presenting cell (APC).
 - 28. The method of claim 27, wherein the APC is transfected or transformed with a nucleic acid encoding the polypeptide and the polypeptide is expressed on the surface of the APC.
 - 29. A method of identifying a compound that enhances an immune response, the method comprising:
 - (a) providing a test compound:

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(b) culturing, together, the compound, the polypeptide of claim 6, a T cell, and a T cell activating stimulus; and

(c) determining whether the test compound enhances the response of the T cell to the antigen, as an indication that the test compound enhances an immune response.

- The method of claim 29, wherein the stimulus is an antibody that binds
 to a T cell receptor or a CD3 polypeptide.
 - 31. The method of claim 29, wherein the stimulus is an alloantigen or an antigenic peptide bound to a MHC molecule on the surface of an APC.
 - 32. The method of claim 31, wherein the APC is transfected or transformed with a nucleic acid encoding the polypeptide and the polypeptide is expressed on the surface of the APC.
 - 33. An antibody that binds specifically to the polypeptide of claim 6.
 - 34. The antibody of claim 33, wherein the antibody is a monoclonal antibody.
- 35. The antibody of claim 33, wherein the antibody binds to the polypeptide with SEQ ID NO:1.
 - 36. A cell comprising the vector of claim 12.

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- 37. A method of producing a polypeptide that co-stimulates a T cell, the method comprising culturing the cell of claim 36 and purifying the polypeptide from the culture.
- 20 38. A fusion protein comprising a first domain joined to at least one additional domain, wherein the first domain comprises a polypeptide of claim 6.
 - 39. The fusion protein of claim 38, wherein the at least one additional domain comprises the constant region of an immunoglobulin heavy chain or a fragment thereof.
- 40. A nucleic acid molecule encoding the fusion protein of claim 39.
 - 41. A vector comprising the nucleic acid molecule of claim 40.

42. The vector of claim 41, wherein the nucleic acid molecule is operably linked to a regulatory element which allows expression of the nucleic acid molecule in a cell.

- 43. A cell comprising the vector of claim 42.
- 5 44. A method of producing a fusion protein, the method comprising culturing the cell of claim 43 and purifying the fusion protein from the culture.
 - 45. The method of claim 14, wherein, the T cell is a helper T cell.
 - 46. The method of claim 45, wherein the helper T cell is a helper T cell that provides helper activity for a B cell antibody-producing response.
- 10 47. The method of claim 45, wherein the B cell antibody response is an IgG2a antibody response.
 - 48. The method of claim 14. wherein the co-stimulation causes an increase in the level of CD40 ligand on the T cell surface.

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CCCACGCGTCCGCAGCTTCCCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCC TGCAGGGCATTCCAGAAAGATGAGGATATTTGCTGTCTTTATATTCATGACCT ACTGGCATTTGCTGAACGCATTTACTGTCACGGTTCCCAAGGACCTATATGTG GTAGAGTATGGTAGCAATATGACAATTGAATGCAAATTCCCAGTAGAAAAAC AATTAGACCTGGCTGCACTAATTGTCTATTGGGAAATGGAGGATAAGAACAT TATTCAATTTGTGCATGGAGAGGGAAGACCTGAAGGTTCAGCATAGTAGCTAC AGACAGAGGCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCAC TTCAGATCACAGATGTGAAATTGCAGGATGCAGGGGTGTACCGCTGCATGAT CAGCTATGGTGCTGCCGACTACAAGCGAATTACTGTGAAAGTCAATGCCCCA TACAACAAAATCAACCAAAGAATTTTGGTTGTGGATCCAGTCACCTCTGAAC ATGAACTGACATGTCAGGCTGAGGGCTACCCCAAGGCCGAAGTCATCTGGAC AAGCAGTGACCATCAAGTCCTGAGTGGTAAGACCACCACCACCAATTCCAAG AGAGAGGAGAAGCTTTTCAATGTGACCAGCACACTGAGAATCAACACAACA ACTAATGAGATTTTCTACTGCACTTTTAGGAGATTAGATCCTGAGGAAAACCA TACAGCTGAATTGGTCATCCCAGAACTACCTCTGGCACATCCTCCAAATGAA AGGACTCACTTGGTAATTCTGGGAGCCATCTTATTATGCCTTGGTGTAGCACT GGCATCCAAGATACAAACTCAAAGAAGCAAAGTGATACACATTTGGAGGAG ACGTAATCCAGCATTGGAACTTCTGATCTTCAAGCAGGGATTCTCAACCTGTG GGATGCAGGCAATGTGGGACTTAAAAGGCCCAAGCACTGAAAATGGAACCT GGCGAAAGCAGAGGAGGAGAATGAAGAAGATGGAGTCAAACAGGGAGCC TGGAGGGAGACCTTGATACTTTCAAATGCCTGAGGGGCTCATCGACGCCTGT GACAGGGAGAAAGGATACTTCTGAACAAGGAGCCTCCAAGCAAATCATCCAT TGCTCATCCTAGGAAGACGGGTTGAGAATCCCTAATTTGAGGGTCAGTTCCTG CAGAAGTGCCCTTTGCCTCCACTCAATGCCTCAATTTCTTTTCTGCATGACTG AGAGTCTCAGTGTTGGAACGGGACAGTATTTATGTATGAGTTTTTCCTATTTA TTTTGAGTCTGTGAGGTCTTCTTGTCATGTGAGTGTGGTTGTGAATGATTTCTT TTGAAGATATATTGTAGTAGATGTTACAATTTTGTCGCCAAACTAAACTTGCT GCTTAATGATTTGCTCACATCTAGTAAAACATGGAGTATTTGTAAGGTGCTTG GTCTCCTCTATAACTACAAGTATACATTGGAAGCATAAAGATCAAACCGTTG GTTGCATAGGATGTCACCTTTATTTAACCCATTAATACTCTGGTTGACCTAAT CTTATTCTCAGACCTCAAGTGTCTGTGCAGTATCTGTTCCATTTAAATATCAG CTTTACAATTATGTGGTAGCCTACACACATAATCTCATTTCATCGCTGTAACC ACCCTGTTGTGATAACCACTATTATTTTACCCATCGTACAGCTGAGGAAGCAA ACAGATTAAGTAACTTGCCCAAACCAGTAAATAGCAGACCTCAGACTGCCAC CCACTGTCCTTTTATAATACAATTTACAGCTATATTTTACTTTAAGCAATTCTT TTATTCAAAAACCATTTATTAAGTGCCCTTGCAATATCAATCGCTGTGCCAGG CATTGAATCTACAGATGTGAGCAAGACAAAGTACCTGTCCTCAAGGAGCTCA TAGTATAATGAGGAGATTAACAAGAAAATGTATTATTACAATTTAGTCCAGT GTCATAGCATAAGGATGATGCGAGGGGAAAACCCGAGCAGTGTTGCCAAGA GGAGGAAATAGGCCAATGTGGTCTGGGACGGTTGGATATACTTAAACATCTT AATAATCAGAGTAATTTTCATTTACAAAGAGAGGTCGGTACTTAAAATAACC

FIG. 1A

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CTTTGCCATATAATCTAATGCTTGTTTATATAGTGTCTGGTATTGTTTAACAGT TCTGTCTTTTCTATTTAAATGCCACTAAATTTTAAATTCATACCTTTCCATGAT TCAAAATTCAAAAGATCCCATGGGAGATGGTTGGAAAATCTCCACTTCATCC TTTTAAAATTTTTTCCTAAATAGTAACACATTGTATGTCTGCTGTGTACTTTG TCCCAGGGCTGAGGATCCATGCCTTCTTTGTTTCTAAGTTATCTTTCCCATAGC TTTTCATTATCTTTCATATGATCCAGTATATGTTAAATATGTCCTACATATACA TTTAGACACCACCATTTGTTAAGTATTTGCTCTAGGACAGAGTTTGGATTTG TTTATGTTTGCTCAAAAGGAGACCCATGGGCTCTCCAGGGTGCACTGAGTCA ATCTAGTCCTAAAAAGCAATCTTATTATTAACTCTGTATGACAGAATCATGTC TGGAACTTTTGTTTTCTGCTTTCTGTCAAGTATAAACTTCACTTTGATGCTGTA CTTGCAAAATCACATTTTCTTTCTGGAAATTCCGGCAGTGTACCTTGACTGCT AGCTACCCTGTGCCAGAAAAGCCTCATTCGTTGTGCTTGAACCCTTGAATGCC ACCAGCTGTCATCACTACACAGCCCTCCTAAGAGGCTTCCTGGAGGTTTCGA GATTCAGATGCCCTGGGAGATCCCAGAGTTTCCTTTCCCTCTTGGCCATATTC TGGTGTCAATGACAAGGAGTACCTTGGCTTTGCCACATGTCAAGGCTGAAGA AACAGTGTCTCCAACAGAGCTCCTTGTGTTATCTGTTTGTACATGTGCATTTG TACAGTAATTGGTGTGACAGTGTTCTTTGTGTGAATTACAGGCAAGAATTGTG GCTGAGCAAGGCACATAGTCTACTCAGTCTATTCCTAAGTCCTAACTCCTCCT TGTGGTGTTGGATTTGTAAGGCACTTTATCCCTTTTGTCTCATGTTTCATCGTA AATGGCATAGGCAGAGATGATACCTAATTCTGCATTTGATTGTCACTTTTTGT ACCTGCATTAATTTAATAAAATATTCTTATTTATTTTGTTACTTGGTAAAAAA

FIG. 1B

peptide Signal

MRIFAVFIFMTYWHLLNAFTVTVPKDLYVVEYGSNMTIECKFPVEKQLDL

Ig-V-like

AALIVYWEMEDKNIIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQ 51

ITDVKLODAGVYRCMISYGGADYKRITVKVNAPYNKINQRILVVDPVTSE 101

Iq-C-like

HELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLRIN 151

TTTNEIFYCTFRLDPEENHTAELVIPELPLAHPPNERTHLVILGAILLC 201

LGVALTFIFRLRKGRMMDVKKCGIQDTNSKKQSDTHLEET 251

FIG. 2A

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hB7-H1	50	* VEYGSNMTIECKFPVEKQLDLAALIVYWEM
B7-1 B7-2	43 30	KEVATLSCGHNVS-VEELAQTRIYWOK AYFNETADLPCQFANSQNQSLSELVVFWOD
	80 68 60	EDKNIIQFVHGEED-LKVQHSSYRQRARLL EKKMVLTMMSGDMNIWPEYKNRTIFD QENLVLNEVYLGKEKFDSVHSKYMGRTSFD
	89 95 90	* KDQLSLGNAALQITDVKLQDAGVYRCMISY ITNNLSIVILALRPSDEGTYECVVLK SDSWTLRLHNLQIKDKGLYQCIIHH
-	119 121 115	GGA D YKRIT V KVNAPY N KINQR I LVV YEK D AFK REH LAE V T LSV K A D F PT P S I SDF KKPTGMI R I H QMNSE LSV L ANF SQ P E I VPI
-	145 151 145	* DPVTSEHELTC-QAEGYPKA-EVIWTSS EIPTSNIRR-IICSTSGGFPEP-HLSWLEN SNITENVYINLTCSSIHGYPEPKKMSVLLR
	171 179 175	DHOVISCKTTTTNSKEEEKIFNVTSTI GEEINAINTTVSQDPETELYAVSSKI TKNSTIEYDGIMQK-SQDNVTELYDVSISI
4	205	* RINTTTNEIFYCTFRRLDPEENHTAEL DFNMTTNHSFMCLIKYGHLRVNQTF SVSFPDVTSNMTIFCILETDKTRLLS-SPF
4	230	VIIPELPLA HPP NERT NWNTTKOE HFPD NIL SIELEDPOP PPD HIP FIG. 2B

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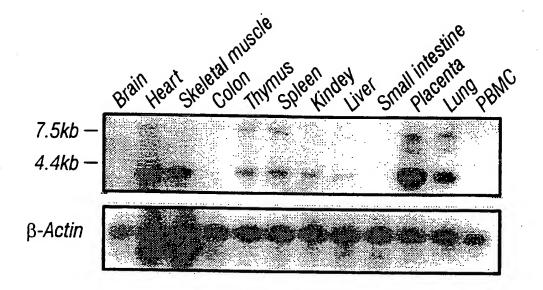
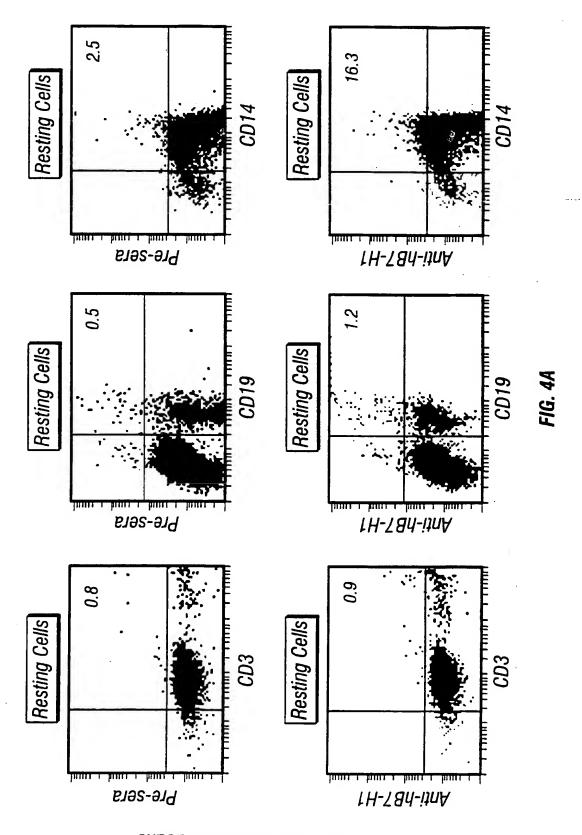
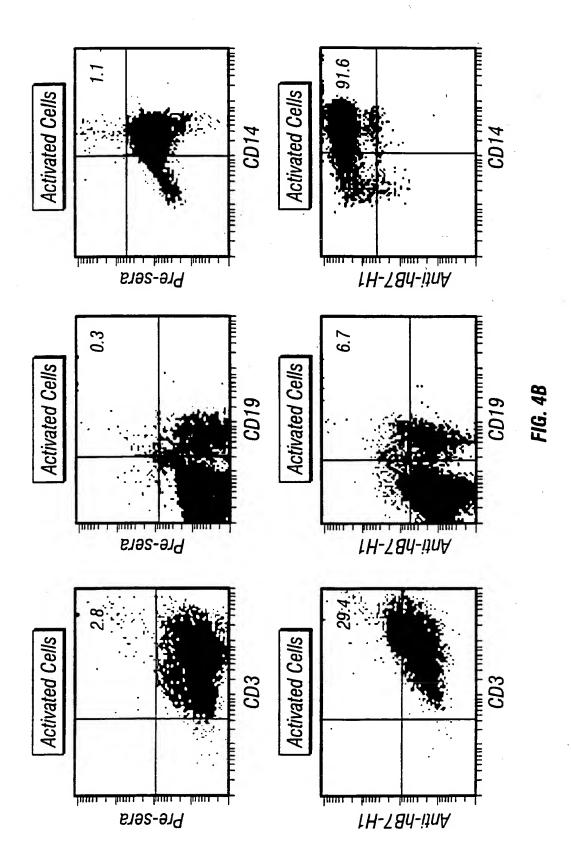


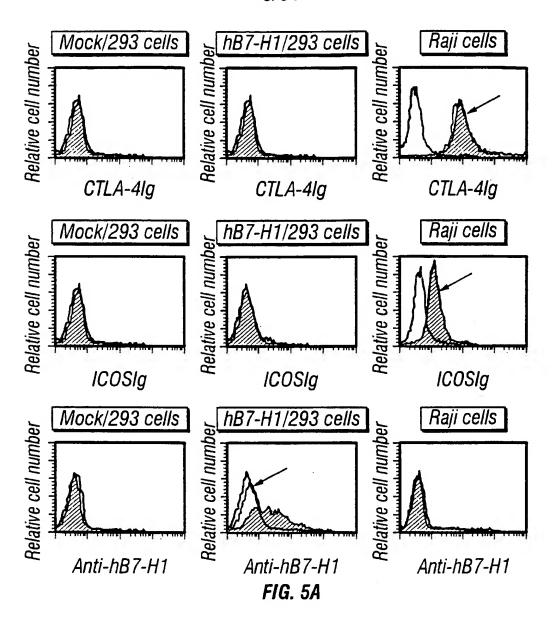
FIG. 3

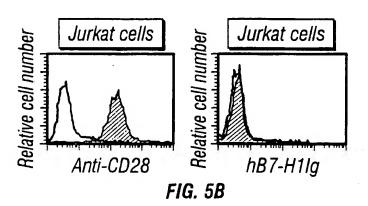


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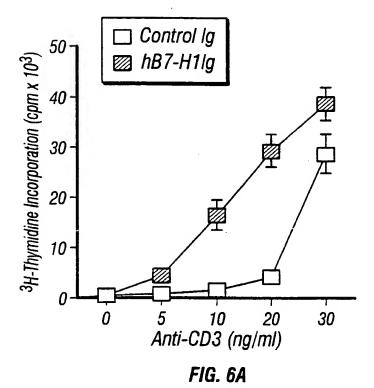


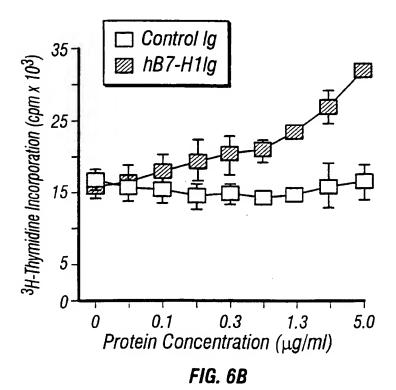
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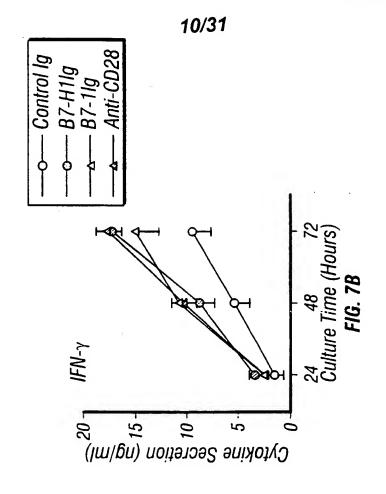


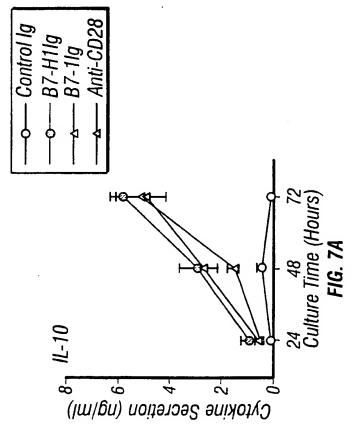


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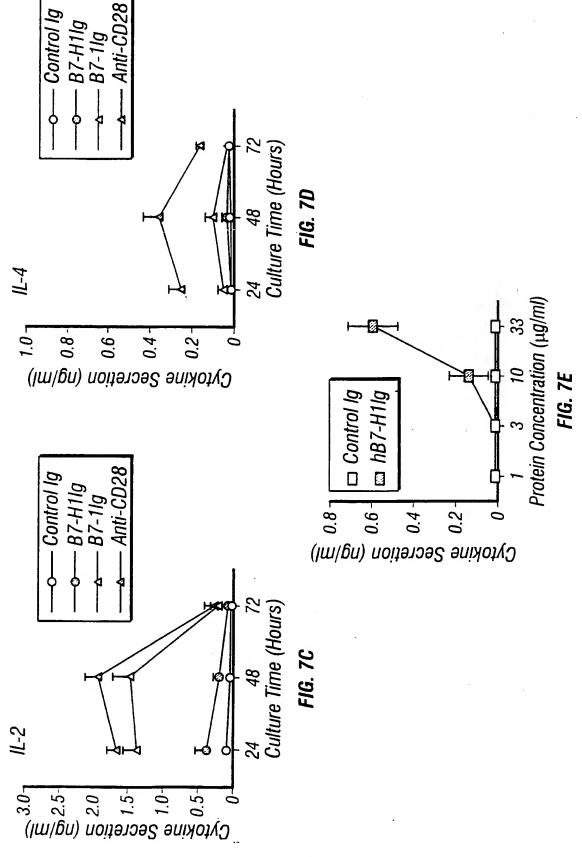








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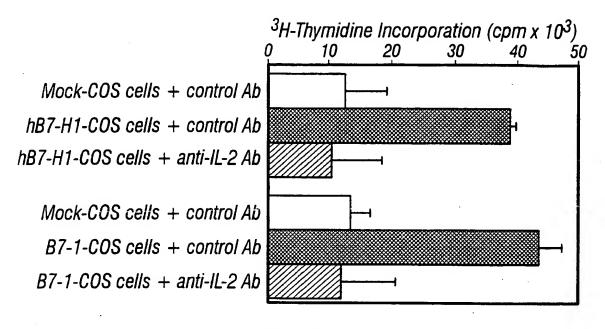
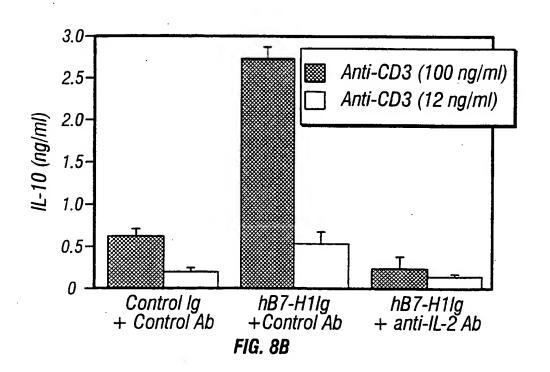


FIG. 8A



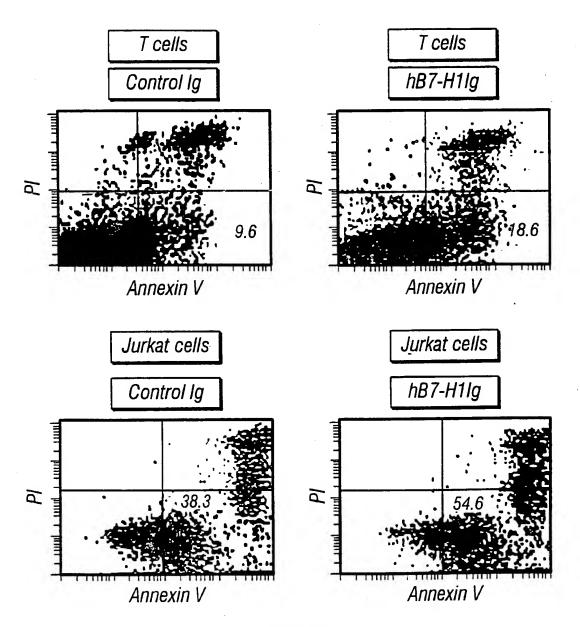
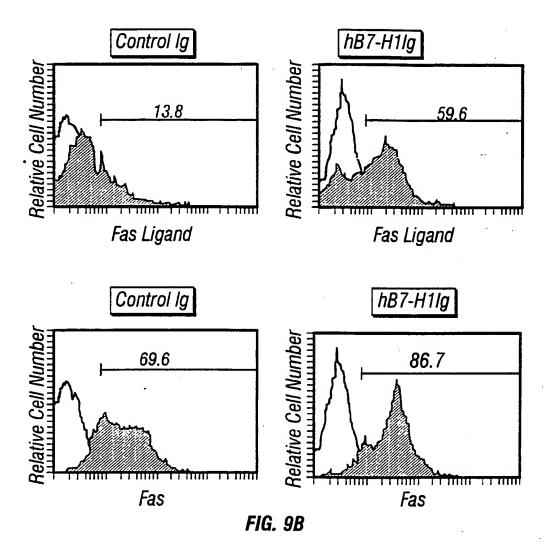


FIG. 9A



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ATGAGGATATTTGCTGGCATTATATTCACAGCCTGCTGTCACTTGCTACGGGC GTTTACTATCACGGCTCCAAAGGACTTGTACGTGGTGGAGTATGGCAGCAAC GTCACGATGGAGTGCAGATTCCCTGTAGAACGGGAGCTGGACCTGCTTGCGT TAGTGGTGTACTGGGAAAAGGAAGATGAGCAAGTGATTCAGTTTGTGGCAGG AGAGGAGGACCTTAAGCCTCAGCACAGCAACTTCAGGGGGAGAGCCTCGCT GCCAAAGGACCAGCTTTTGAAGGGAAATGCTGCCCTTCAGATCACAGACGTC AAGCTGCAGGACGCAGGCGTTTACTGCTGCATAATCAGCTACGGTGGTGCGG ACTACAAGCGAATCACGCTGAAAGTCAATGCCCCATACCGCAAAATCAACCA GAGAATTTCCGTGGATCCAGCCACTTCTGAGCATGAACTAATATGTCAGGCC GAGGGTTATCCAGAAGCTGAGGTAATCTGGACAACAGTGACCACCAACCCG TGAGTGGGAAGAGAGTGTCACCACTTCCCGGACAGAGGGGATGCTTCTCAA TGTGACCAGCAGTCTGAGGGTCAACGCCACAGCGAATGATGTTTTCTACTGT ACGTTTTGGAGATCACAGCCAGGGCAAAACCACACAGCGGAGCTGATCATCC CAGAACTGCCTGCAACACATCCTCCACAGAACAGGACTCACTGGGTGCTTCT GGGATCCATCCTGTTGTTCCTCATTGTAGTGTCCACGGTCCTCCTCTTCTTGAG AAAACAAGTGAGAATGCTAGATGTGGAGAAATGTGGCGTTGAAGATACAAG CTCAAAAACCGAAATGATACACAATTCGAGGAGACGTAA

FIG. 10

MRIFAGIIFTACCHLLRAFTITAPKDLYVVEYGSNVTMECRFPVERELDLLALVV YWEKEDEQVIQFVAGEEDLKPQHSNFRGRASLPKDQLLKGNAALQITDVKLQDA GVYCCIISYGGADYKRITLKVNAPYRKINQRISVDPATSEHELICQAEGYPEAEVI WTNSDHQPVSGKRSVTTSRTEGMLLNVTSSLRVNATANDVFYCTFWRSQPGQN HTAELIIPELPATHPPQNRTHWVLLGSILLFLIVVSTVLLFLRKQVRMLDVEKCGV EDTSSKNRNDTQFEET

FIG. 11

		signal peptide	
mouse B7-H1		MRIFAGIIFIACCHLLRAFTITAPKDLYVVEYGSN	3
human B7-H1	\vdash	MRIFAVE IFMIYWHLLNAFTVTVPKDLYVVEYGSN	\sim
	(IgV-like domain	
mouse B7-H1	36	36 VTMECRFPVERELDILALVVYWEKEDEQVIQFVAG	
human B7-H1	36	36 MTIECKFPVEKQLDLAALIVYWEMEDKNIIQFVHG	7
mouse B7-H1	71	EEDLKPQHSNFRGRASIPKDQLLKGNAALQITDVK	
human B7-H1	71	EEDLKVQHSSYRORARILKDQLSLGNAALQITDVK	
mouse B7-H1	106	LODAGVYCCIISYGGADYKRITLKVNAPYRKINQR	7
human B7-H1	1.06	LODAGVYRCMISYGGADYKRITVKVNAPYNKINQR	1
		IgC-like domain	
mouse B7-H1		141 IS-VDPATSEHELICOAEGYPEAEVIWINSDHOPV	-
human B7-H1	141	ILVVDPVTSEHELTCOAEGYPKAEVIWTSSDHQVL	7
mouse B7-H1		175 SGKRSVTTSRTEGMILINVTSSLRVNATANDVFYCT	~
human B7-H1	176	176 SGKTTTTTNSKREEKLENVTSTLRINTTINEIFYCT	7

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FIG. 12A-

210 FWRSQFGONHTAELIIPELFATHPPONRTHWVLLG 244	FRRLDPERNHTAELVIPELPLAHPPNERTHLVILG 245		245 SILLELIWVSTVELFLRKQVRMLDVEKCGVEDTSS 279	246 AILLCLGVALTFIFRRRG-RMMDVKKCGIQDTNS 279	cytoplasmic	DTQFEET 290	280 K K OSDTHLEET 290
ENRIS OF	ERRILDI	1	SILLE	AILLC	cytop.	KNKND	KKQSD.
210	211		245	246		280	280
B7-H1	B7-H1		B7-H1	B7-H1		nouse B7-H1	B7-H1
mouse B7-H1	human B7-H1		mouse B7-H1	human B7-H1		mouse	human B7-H1
						SUE	STI

FIG. 12A-2

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 | | | | | COT TO THE PROPERTY OF THE PRINCIPLY AND THE PROPERTY OF THE P | 105 KRNKGHLSLDSMKQGNEISLKINVI PODITOEFIGK 13
 | 82 YLGRTSFDRN.
105 YKNRGHLSLDSMK | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGIN. V DSS 10 LS L VYWQ V L V * LS L VYWQ V 81 FRGRASLPKDQLLKGNAALQITTDVKLQDAGVYCCI 11 91 YKNR.TLYDNTTYSLIILLGLVLSDRGTYSCV 12 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDCF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 71 N LS GLYVYWQ ENPENSYTYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITTDWKLQDAGVYCGI 91 YKNR.TLYDNT.TYSLITTGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 37RP-1 71 NILSGILYUYWQIENPEVSUTYYLPYKSPGIN. VDSSS LS LVYWQ V 181 FRGRASLPKDQLLKGNAALQITUVKQDAGVYCGI 91 YKNR. TLYDNTTYSLIIILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
 | 49 SILSILVN FWQD QQKLN LIYEHYLGILEKHDSVNAK
37RP-1 71 NILSGLYVYWQIENPEVSVITYYLPYKSPGIN. VDSS
LS L VYWQ V L V
LS L VYWQ V L V
1 V * 1 V * 1 V * 1 V * 1 V * 1 V * 1 V * 1 V * 2 V * 37RP-1 105 YKNR TLYDNT TYSLITILGLVLSDRGIYSGV SYDGE 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTGR | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGLN.VDSS
LS L VYWQ V L V *
LS L VYWQ V L V *
L V *
S1 FRGRASLPKDQLLKGNAALQITUGEVICOR
91 YKNRTLYDNTTYSLITILGLVLSDRGTYSGV
82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF
82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK 1 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V LS L VYWQ V LS L VYWQ V LS L VYWQ V S1 FRGRASLPKDQLLKGNAALQITUGVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRIHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTGR | 63 .ESEDRIYWOKHUKVVLSVIAGKIK.VWPE 49 SILSEILVVFWQDQQKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L V LS L VYWQ 91 YKNRTLYDNTTYSIIILGLVLSDRGVYCCI 92 YKNRTLYDNTTYSIIILGLVLSDRGVYCCI 82 YLGRTSFDRNNWTIRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNESIYLKNVTPQDTQEFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WWPE 49 SILSEILVVFWQD QQKLVLYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVITYYLPYKSPGIN. VDSS LS L VYWQ V L V LS L VYWQ 91 YKNR TLYDNT TYSILILIGIVLSDRGIYSGV 82 YIGR TSFDRN NWTIRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNESIYLKNVTPQDTQEFTGR
 | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWOD QOKIVIYEHYLGTEKILDSVNAK 87RP-1 71 NILSGILYVYWOIENPEVSVITYYLPYKSPGIN. VDSSS LS I VYWO V LS L VYWO 91 YKNR TLYDNT TYSLITILGIVLSDRGIYSGV 82 YLGR TSFDRN NWTIRLHNVOIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNESIYLKNVTPQDTQEFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SISEIVVFWOD QOKLVIYEHYLGTEKI DSVNAK 37RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO V L V 1 81 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCGI 91 YKNR TLYDNT TYSLITILGLVLSDRGIYSGV 82 YLGR TSFDRN NWTIRLHNVOIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 63 . ESEDRIYWOK . HDKVVLS VIAGKIK. WPE 49 SILSEILVVFWOD . QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQ IENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNR . TLYDNT TYSLITLGLVLSDRGIYSGV 82 YLGR . TSFDRN NWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WWPE 49 SILSEILVVFWOD QOKIVIYEHYLGTEKIDSVNAK 87RP-1 71 NILSGILYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS I VYWO V 1 | 49 DILLALVVYWEK. EDEQVIQ. FVAGEEDILKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKILK. WPE 49 SISEIVVFWQD. QQKLVIYEHYLGTFEKILDSVNAK 37RP-1 71 NISGLYVYWQ ENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V R ERGRASLPKDQLLKGNAAIQITTDVKLQDAGVYCQI 91 YKNR. TLYDNT. TYSIIILGIVLSDRGTYSGV 82 YLGR. TSFDRN. NWTIRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR
 | 49 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63.ESEDRIYWQKHDKVVLSVIAGKEKLDSVNAK 49 SESEELVVFWQDQQKLVLYEHYLGTEKELDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ LS L VYWQ 91 YKNRTLYDNTTYSLITLGLYLSDAGVYCGI 91 YKNRTLYDNTTYSLITLGLYLSDAGVYCGI 82 YLGRTSFDRNNWTLRIHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 4 9 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 4 9 SESEDRIYWQK. HDKVVLS VIAGKEK, VWPE 4 9 SESEDRIYWYFWQD QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ V 1 VKNR TLYDNT TYSLITLGLYLSDRGTYSGV 91 YKNR TLYDNT TYSLITLGLYLSDRGTYSGV 82 YEGR TSFDRN NWTERTHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 49 DILALVIVWER. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKLVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGIYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS I VYWQ V L V 81 FRGRASLPKDQLLKGNAAIQITUVKLQDAGVYCQI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTIRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 49 DELAEUVEWER. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWOR. HDKVVLS. VIAGKIK. WPE 49 SLSEILVVFWOD. QOKLVLYEHYLGTEKIDSVNAK B7RP-1 71 NIEGILYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V ERGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNR. TLYDNT. TYSLIILGLVLSDRGTYSCV 82 YLGR. TSFDRN. NWTLRLHNVQIKDMGSYDCF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 1 LL S V L C LL S 63 .ESEDRIYWOK HDKVVLS VIAGEEDLKPOHSN 49 SLSELVVFWOD QOKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWO V L V S1
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 | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEWVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.WPE 49 SELSELVVYWQDQQKLVIYEHYLGTEKLDSWNAK 37RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTUGLVLSDAGVYCQI 91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV 82 YEGRTSFDRNNWTIRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEWWER. EDEOVIO EVAGEEDERPOHSN 63 ESEDRIYWOR. HDKWULS. VIAGKEK WPE 49 SELSELWWYWQD. QOKLWIYEHYLGTEKEDSWAR 37RP-1 71 NESCLYWWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITUWKLQDAGVYCQI 91 YKNR. TLYDNT. TYSLIILGLWLSDRGIYSGV 82 YEGR. TSFDRN. NWTERLHNVQIKDMGSYDGF 83 YEGR. TSFDRN. NWTERLHNVQIKDMGSYDGF 84 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 1 L. S. L. L. SELCA SAETEVGAMVGSN WVLSCIDPHRRHF 1 L. S. V. L. C. 49 DILALWYWEK. EDEQVIQ. FVAGEED LIKPQHSN 63 . ESEDRIYWGK. HDKVVLS VIAGKLK. WWPE 49 SILSELVYFWQD QQKLVIYEHYLGITEKLDSVNAK 87 RP-1 71 NILSGLYVYWQIENPEVSVIYYLPYKSPGIN. VDSS L. VYWQ. V. L. 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCQI 91 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 84 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLS LCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEUWER. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOR HDKWULS VIAGKEK. WWPE 49 SEBENIYWOD QQKLWIYEHYLGTEKEDSWNAK 37RP-1 71 NESELWWYQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDWKLQDAGVYCGI 91 YKNR TLYDNT TYSLIILGLWLSDRGIYSGV 82 YEGR TSFDRN NWTERIHNWQIKDMGSYDGF 83 YEGR TSFDRN NWTERIHNWQIKDMGSYDGF 84 YEGR TSFDRN NWTERIHNWQIKDMGSYDGF | 1 V LL SLCAPSAETEVGANVGSNUVULSCIDPHRRHF LL S LL SSLCAPSAETEVGANVGSNUVULSCIDPHRRHF LL S 49 DELAEDVEWER. EDEQVIQ. FVAGEEDERPQHSN 63 .ESEDRIYWERHDKVVLSVIAGKEK. WPE 49 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNRTLYDNTTYSLITIGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRIHNVQIKDMGSYDGF 83 YLGRTSFDRNNWTLRIHNVQIKDMGSYDGF
 | 1 / VLLISCAPANSVETCARFENGTCYMPGPETRACNIA 1 / VLLISCAPANSVETCARFENGANGSNWWLSCIDPHRRHF 1 L S 4 9 DILAINVYWER. EDEQVIQ. EVAGEEDIRPQHSN 63 .ESEDRIYWGRHDKVVISVIAGKIR. WPE 4 9 SISEINVFWODQOKLVIYEHYLGTEKIDSVNAK 8 1 SISEINVYFWOIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 8 1 FRGRASLPKDOLLKGNAALOTTDWKLODAGVYCGI 9 1 YKNRTLYDNTTYSLITIGIVUSDRGTYSGV 8 2 YIGRTSFDRNNWTLRITHNVOIKDMGSYDGF 8 3 YIGRTSFDRNNWTLRITHNVOIKDMGSYDGF | 17 VLLISCHAVSVETQAYFNGTQYLPCPETKAQNI D7RP-1 36 LLLSCHQASAETEVGAMVGSNWWLSCIDPHRRHF LL S LL S 49 DELAEVWEREDEQVIQ.FVAGEEDERPQHSN 63 .ESEDRIYWORHDKVWLSVIAGKEK.WWPE 49 SESEDRIYWODQQKLWLYEHYLGTEKEDSWNAK B7RP-1 71 NESGLYWYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ N L V 81 FRGRASLPKDQLLKGNAALQTTDWKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLWLSDRGTYSCV 82 YEGRTSFDRNNWYTRLHNVQIKDMGSYDGF 83 YEGRTSFDRNNWYTRLHNVQIKDMGSYDGF | | | | | | | |
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 | 105 KKNKGHLSLDSMKQGNFISLYLJKNVI PQDI QEFIGK 13 | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 82 YLGR. TSFDRN NWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ V LS L VYWQ V L V * 1. V * 2. V * 3. KNR. TLYPQLLKGNAALOTHDVKLQDAGVYCGI 82 YLGR. TLYPNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 37RP-1 71 N LSGLYVYWQ IENPĒVS V TYYLPYKSPGIN. WDSS LS L VYWQ R ERGRASLPKOLLKGNAALOTHDVKLQDAGVYCCI 91 YKNR. TLYDNT. TYSLITLGLVLSDRGTYSCV 82 YLGR. TSFDRN. NWTLRLHNVQIKDMGSYDCF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR
 | 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSSS LS L VYWQ V LS L VYWQ V LS L VYWQ V LYKNR.TLYDNTTYSLIIILGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRIHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 49 SILSILVV FWQD QQKLVLY EHYLGILEKHDSVNAK
37RP-1 71 NILSGLYVYWQ | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGLN.VDSS
LS L VYWQ V L V *
LS L VYWQ V L V *
LS L VYWQ V L V *
81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI
91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV
82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF
837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK 1 NLSGLYVYWQ
 | 63 . ESEDRIYWOK HUKVVLS VIAGKIK. WWPE. 49 SILSEILVVFWQD QQKIVIYEHYLGTEKIDSWNAK B7RP-1 71 NILSGILYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ V L V 81 FRGRASLPKDQLLKGNAALQTTDWKLQDAGVYCGI 91 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WWPE 49 SILSEILVVFWQD QQKILVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ V L V LS L VYWQ 91 YKNR . TLYDNT TYSILITIGIVISDRGTYSGV 82 YIGR . TSFDRN NWTIRIHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSIYLKNVTPQDTQEFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SISEILVVFWOD QOKLVLYEHYLGTEKILDSVNAK 87 RP-1 71 NILSGILYVYWO V L L V LS L VYWQ V 18 FRGRASLPKDOLLKGNAALOTTUVKLODAGVYCGI 91 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLKLHNVQIKDMGSYDGF 837 RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKEK. VWPE 49 SESELVVFWOD QOKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWO V LS L VYWO V LS L VYWO V LS L VYWO V LS L VYWO C S1 FRGRASLPKDOLLKGNAALOTTUGVKLODAGVYCGI 91 YKNR . TLYDNT TYSLIILGLVLSDRGTYSGV 82 YLGR . TSFDRN NWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 63 .ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWOD QOKIVIYEHYLGTTEKILDSVNAK B7RP-1 71 NILSGILYVYWO ENPEVSVTYYLPYKSPGIN. VDSS LS L VYWO V L V LS L VYWO V LS L VYWO C L 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 63 .ESEDRIYWOK HDKVVIS VIAGKIK. WPE 49 SILSEILVVFWQD QQKLVIYEHYLGTEKILDSVNAK B7RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN. VDDSS LS L VYWQ R1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR TLYDNT TYSLITLGLVUSDRGTYSGV 82 YLGR TSFDRN NWTIRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR
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 | 105 KKNKGHLSLDSMKQGNFISLYLJKNVI PQDI QEFIGK 13 | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ V LS L VYWQ V L V * 1. V * 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 37RP-1 71 N LSGLYVYWQ IENPĒVS V TYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ V LS L VYWQ V L V * 1
 | 37RP-1 71 NILSGILYUYWQIENPEVSUTYYLPYKSPGIN. VDSSS LS L VYWQ V L V 81 FRGRASLPKDQLLKGNAALQITUUKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 49 SILSILVV FWQD QQKLVLY EHYLGILEKHDSVNAK
37RP-1 71 NILSGLYVYWQ | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGLN.VDSS
LS L VYWQ V L V
LS L VYWQ V L V
81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI
91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV
82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF
837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK 1 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQTTGTCOAGVYCGI 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
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 | 1L S LLLSCHASAETEVGAMVGSN V V L SCIDPHRRHF LL S V L C O L C S . ESEDRIYWER EDEQVIQ. FVAGEEDLKPQHSN 63 . ESEDRIYWER HDKVVLS VIAGKLK. VWPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 87 RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L C LS L VYWQ 91 YKNR . TLYDNT TYSLIIILGIVLSDAGVYCQI 92 YLGR . TSFDRN NWTLRILHNVQIKDMGSYDQF 82 YLGR . TSFDRN NWTLRILHNVQIKDMGSYDQF 84 YLGR . TSFDRN NWTLRILHNVQIKDMGSYDQF 85 YLGR . TSFDRN NWTLRILHNVQIKDMGSYDQF 86 YLGR . TSFDRN NWTLRILHNVQIKDMGSYDQF 87 YLGR . TSFDRN NWTLRILHNVQIKDMGSYDQF 87 YLGR . TSFDRN NWTLRILHNVQIKDMGSYDQF 88 YLGR . TSFDRN NWTLRILHNVQIKDMGSYDQF 89 YKNR . TSFDRN NWTLRILHNVQIKDMGSYDQF 80 YKNR . TSFDRN NWTLRILHNVQIKDMGSYDQF | 1 S LILSSLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DILAIWWWEKEDEQWIQ.FVAGEEDIKPQHSN 63 .ESEDRIYWGKHDKWWLSVIAGKIK.WWPE 49 SILSEIWWFWDQQKLWLYEHYLGTEKIDSWNAK 37RP-1 71 NILSGLYWWQIENPEWSWTYYLPYKSPGIN.WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDWKLQDAGWYCGI 91 YKNR.TLYDNTTYSLIJILGLWLSDRGIYSGV 82 YLGR.TSFDRNNWTLRIHNWQIKDMGSYDGF 83 YKNR.TSFDRNNWTLRIHNWQIKDMGSYDGF | 17RP-1 36 LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWOKHDKVVLSVIAGKEK.VWPE 49 SESEDRIYWODQQKLVYLSHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLIILIGLVLSDRGTYSCV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLSELCAPSAETEVGAMVGSN 1 L S 4 DELAEVTWER. EDECVIO. FVAGEEDERPOHSN 63 .ESEDRIYWER HDKVVIS VIAGKEK VWPE 49 SEEDRIYWEWD QOKLVIYEHYLGHEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ V L C 1 L VYWQ 81 FRGRASLPKDQLLKGNAALQITLDVKLQDAGVYCQI 91 YKNR . TLYDNT TYSLIILIGLVLSDRGIYSGV 82 YLGR . TSFDRN NWTLRLHNVQIKDMGSYDGF 83 YKNR GHLSLDSMKQGNFSLYLKNVIPQDTQEFTGR | 1 S LLLSSLCAASAETEVGAMVGSNWVLSIDPHRRHF LL S 49 DLLAINVYWER. EDEQVIQ. EVAGEEDIRPQHSN 63 .ESEDRIYWERHDKVVLSVIAGKIR. WPE 49 SLSEINVFWQDQQKLVIYEHYLGHEKIDSWNAK 87RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 1 L VYWQ 91 YKNR .TLYDNTTYSLITILGLYLSDRGTYSGV 82 YLGR .TSFDRNNWTLRIHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
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1 VYWQ V L V
81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI
91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV
82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF
837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK LS L VYWQ V S1 FRGRASLPKDQLLKGNAALQTTGTTGTKCDAGVYCGI S2 YLGR. TSFDRNTYSLITLGLVLSDRGTYSCV R2 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF R2 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF | 63 . ESEDRIYWOK HUKVVLS VIAGKIK. WWFE 49 SILSEILVVFWQD QQKIVIYEHYLGTEKILDSWNAK B7RP-1 71 NILSGILYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ R LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQTTDWKLQDAGVYCGI 91 YKNR . TLYDNT TYSLITLGLVUSDRGTYSGV 82 YLGR . TSFDRN NWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. WDSS LS L VYWQ 1 LS L VYWQ 91 YKNR . TLYDNT TYSLITLGLYLSDRGTYSGV 82 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGLN. V DSS LS L VYWQ V L V * 181 FRGRASLPK D QLLKG N AALOITD V KLQ D AGV Y CGI 91 Y KNR.TLYDNTTYSLIILGLVLSDRGT Y SGV 82 Y LGR.TSF D RN NW TLRLHN V QIK D MGS Y DGF 37RP-1 105 Y KNRGHLSL D SMKQG N FSLYLKN V TPQ D TQEFTGR | 37RP-1 71 N LSGLYVYWQ IENPĒVS V TYYLPYKSPGIN. V DSS LS LVYWQ V LS LVYWQ V 1 YKNR.LYDNTTYSLITLGLYLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
 | 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V LS L VYWQ V LYKNR.TLYDNTTYSLITIGLVISDRGTYSGV 82 YLGR.TSFDRNNWTLRIHNVQIKDMGSYDGF 82 YLGR.TSFDRNNWTLRIHNVQIKDMGSYDGF 84 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 49 SILSILVV FWQD QQKLVLY EHYLGILEKILDS VNAR. 1 NILSGLY VYWQ V L V KISEL VYWQ V L V * LS L VYWQ V L V KISEL VYWQ L V * 1 STRN TLYDNT TYSILIILGLVILSDRGIYSGV COI 82 YLGR TSFDRN NWTIRLHNVQIKDMGSYDGF 84 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 49 SILSILVVFWQDQQKLVLYEHYLGTEKIDSVNAK
37RP-1 71 NILSGLYVYWQ IENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V L V
1 VYWQ L V
1 VYWQ L VYWQ L V
91 YKNR.TLYDNTTYSILITIGLVLSDRGTYSGV
82 YLGR.TSFDRNNWTIRLHNVQIKDMGSYDGF
82 YLGR.TSFDRNNWTIRLHNVQIKDMGSYDGF
83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK LS L VYWQ V STRP-1 105 YKNR. TLYDNTTYSLITILGLVLSDRGTYSGV RZGR. TSFDRNNWTLRLHNVQIKDMGSYDGF RZGR. TSFDRNNWTLRLHNVQIKDMGSYDGF RZGR. TSFDRNNWTLRLHNVQIKDMGSYDGF RZGR. TSFDRNNWTLRLHNVQIKDMGSYDGF RZGR. TSFDRNNWTLRLHNVQIKDMGSYDGF RZGR. TSFDRNNWTLRLHNVQIKDMGSYDGF
 | 63 .ESEDRIYWOKHDKVVLSVIAGKIK.WWFE 49 SILSEILVVFWODQQKIVIYEHYLGTEKIDSVNAK B7RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN.VDSSS LS L VYWQ R FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 91 YKNRTLYDNTTYSILIILGLVLSDRGIYSGV 82 YLGRTSFDRNNWTIRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 63 .ESEDRIYWOKHDKVVLSVIAGKIK.WWPE 49 SILSELVVFWQDQQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGLYVYWQIENPEVSVTYYLPYKSPGIN.WDSS LS L VYWQ N LS L VYWQ 91 YKNRTLYDNTTYSIIILGLVLSDAGVYCQI 82 YLGRTSFDRNNWTIRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SISEIVVFWOD QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO V L L V 18 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCCI 91 YKNR TLYDNT TYSLITTGLVUSDRGIYSGV 82 YLGR TSFDRN NWTIRLHNVOIKDMGSYDCF 837RP-1 105 YKNRGHLSLDSMKOGNFSLYLKNVIPQDTQEFTGR | 63 .ESEDRIYWOKHDKVVLSVIAGKIK.VWPE 49 SILSEILVVFWQDQQKLVLYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVITYYLPYKSPGIN.VDSSS LS L VYWQ V L V LS L VYWQ 91 YKNRTLYDNTTYSILITIGLVLSDRGTYSGV 82 YLGRTSFDRNNWTIRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 63 ESEDRIYMOK. HDKVVLSVIAGKIK. WWPE 49 SISEIVVFWOD. QOKIVIYEHYLGTEKI DSVNAK B7RP-1 71 NISGIYVYWO V LS L VYWO V | 63 . ESEDRIYWOK HDKVVLS VIAGKIK . VWPE 49 SLSEILVVFWQD QQKLVLYEHYLGTEKILDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN . VDSS LS L VYWQ V L V LS L VYWQ V 1 YKNR TLYDNT TYSLIILGLVLSDAGVYCQI 91 YKNR TLYDNT TYSLIILGLVLSDAGVYCQI 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 84 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 85 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 86 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 87 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 49 DILLALVVYWEKEDEQVIQ.EVAGEEDIARPOHSN
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49 SISEINVFWQDQQKLVLYEHYLGTEKIDSVNAR
87 RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V L V
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191 YKNRTLYDNTTYSIIILGIVLSDRGIYSGV
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 | 49 DILAINVYWEKEDEQVIQ.FVAGEEDIIKPQHSN 63 .ESEDRIYWQKHDKVVISVIAGKIIK.VWPE 49 SILSEILVVFWQDQQKIVIYEHYLGTTEKIIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS I VYWQ 0 | 49 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63.ESEDRIYWQKHDKVVLSVIAGKEKLDYWPE 49 SESELVYFWQDQQKLVLYEHYLGTEKLDSVNAK B7RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ LS L VYWQ 1 VKNR 91 YKNRTLYDNTTYSLIIILGLVLSDAGVYCCI 91 YKNRTLYDNTTYSLIIILGLVLSDRGTYSCV 82 YEGRTSFDRNNWTERIHNVQIKDMGSYDGF 82 YEGRTSFDRNNWTERIHNVQIKDMGSYDGF 77 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 49 DELALVEVVER. EDEQVIQ. FVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVISVIAGKIK.VWPE 49 SLSEILVVFWQDQQKLVIYEHYLGTEKIDSVNAK B7RP-1 71 NLSGLYVYWQIENPEVSVTYLPYKSPGIN.VDSS LS I. VYWQ N 1 | 49 DELAEWVYWER. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKEK, VWPE 49 SESELVYFWQD. QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NEGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L VYWQ 19 YKNR. TLYDNT. TYSLITIGIVLSDRGTYSGV 82 YEGR. TSFDRN. NWTERIHNVQIKDMGSYDGF 82 YEGR. TSFDRN. NWTERIHNVQIKDMGSYDGF 83 YRNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 1 LL S 49 DELAELVEVWEK. EDEQVIQ. FVAGEEDEKPOHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWFWQD QQKLVIYEHYLGTEKEDSVNAK 87 RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ 81
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49 SILSEILVVFWQDQQKLVLYEHYLGTEKILDSVNARK
37RP-1 71 NILSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS
LS I VYWQ V L V
1S I VYWQ V L V
81 FRGRASLPKDQLLKGNARIQITUGIVLSDRGIYSGV
91 YKNRTLYDNTTYSLITLGIVLSDRGTYSGV
82 YLGRTSFDRNNWTIRLHNVQIKDMGSYDGF
82 YLGRTSFDRNNWTIRLHNVQIKDMGSYDGF | 49 DELAEVVYWEKEDEQVIQ.FVAGEEDERRPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 49 SESEELVVFWQDQQKLVLYEHYLGTTEKEDSVNAK 37RP-1 71 NESGEYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L V S1
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37RP-1 71 NILSGILYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L V * LS L VYWQ V L V * LS L VYWQ C V L V * LS L VYWQ C V L V * 1. STRP-1 TLYPNTTYSILITIGLVILSDRGTYSGV * 82 YIGRTSFDRNNWTIRTHNVQIKDMGSYDGF * 84 YIGRTSFDRNNWTIRTHNVQIKDMGSYDGF * 85 YIGRTSFDRNNWTIRTHNVQIKDMGSYDGF * 86 YKNRGHLSLDSMKQGNFSILYLKNVTPQDTQFFTGR | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 1 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V * L V * L V * L V X S1 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 63 .ESEDRIYWOKHUKVVLSVIAGKIK.VWPE 49 SILSEILVVFWQDQQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN.VDDSS LS L VYWQ V L V 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SILSEILVVFWQD QQKIVIYEHYLGTEKI DSVNAK 37RP-1 71 NISGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ V L V * LS L VYWQ V L V * LS L VYWQ V L V * S1 FRGRASLPKDQLLKGNAAIOTTGLVLGDAGVYCGI 91 YKNR TLYDNT TYSILITGLVLSDRGTYSGV 82 YIGR TSFDRN NWTIRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSILYLKNVTPQDTQFFTGR
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91 YKNR. TLYDNT. TYSLIILGLVLSDRGTYSCV
82 YLGR. TSFDRN. NWTLRLHNVQIKDMGSYDGF
82 YLGR. TSFDRN. NWTLRLHNVQIKDMGSYDGF | 49 DILAIVIVIMER. EDEQVIQ. FVAGEEDIRPQHSN 63 ESEDRIYWQR. HDKVVIS. VIAGKIR. VWPE 49 SILSEILVVFWQD. QQKLVIYEHYLGTEKILDSVNAR 37RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 91 YKNR. TLYDNT. TYSLIILGLVLSDAGVYCQI 92 YKNR. TSFDRN. NWTIRLHNVQIKDMGSYDGF 82 YLGR. TSFDRN. NWTIRLHNVQIKDMGSYDGF 83 YLGR. TSFDRN. NWTIRLHNVQIKDMGSYDGF 84 YLGR. TSFDRN. NWTIRLHNVQIKDMGSYDGF | 4 9 DELAEVOYWEK. EDEQVIQ. FVAGEEDEKPQHSN 4 9 SESEDRIYWOK. HDKVVLS VIAGKEK, VWPE 4 9 SESEDRIYWYMOD QOKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVTYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 1 L VYWQ 91 YKNR TLYDNT TYSLITLGLYLSDAGVYCCI 92 YKOR TSFDRN NWTERTHNVOIKDMGSYDCF 82 YLGR TSFDRN NWTERTHNVOIKDMGSYDCF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 49 DELALVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK. VWPE 49
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 | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEWVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.WPE 49 SELSELVVYWQDQQKLVLYEHYLGTEKLDSWNAK 87RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ R1 FRGRASLPKBQLLKGNAALQTTQTTGKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLYLSDRGTYSGV 82 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 84 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEWVYWEKEDEOVIO.EVAGEEDEKPOHSN 63 .ESEDRIYWOKHDKVWLSVIAGKEK, WPE 49 SELSELVYYWQDQOKLWLYEHYLGTEKEDSWNAK 37RP-1 71 NESCLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITUWKLQDAGVYCQI 91 YKNRTLYDNTTYSLIILGLYLSDRGIYSGV 82 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 RKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 1 L. S. L. L. SELCA ASAETEVGAMVGSN WVL SCIDPHRRHF 1 L. S. V. L. C. V. L. C. C. S. ESEDRIYWER EDEQVIQ. FVAGEED LIKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKLK. WPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 87 RP-1 71 NLSGLYVYWQIENPEVSVTYLPYKSPGIN. VDSSS L. L. VYWQ. V. L. V 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR TLYDNT TYSLITLGLVLSDRGIYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 84 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR | 1 S LLLS LCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEWWER. EDEOWIO. FVAGEEDEKPOHSN 63 . ESEDRIYWER HDKWWLS VIAGKEK. WWPE 49 SEBENIYWEW HDKWWLS VIAGKEK. WWPE 49 SEBENIYWEW | 1 V LL SLCAPSAETEVGANVGSNVVLSCIDPHRRHF LL S LL SSLCAPSAETEVGANVGSNVVLSCIDPHRRHF LL S 49 DELAEVVEWER. EDEQVIQ. FVAGEEDERPQHSN 63 .ESEDRIYWERHDKVVLSVIAGKEK. WPE 49 SLSEEVVEWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVECGI 91 YKNRTLYDNTTYSLIJIGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRIHNVQIKDMGSYDGF 83 YLGRTSFDRNNWTLRIHNVQIKDMGSYDGF
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTFODTOEFTCR 13 | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ V LS L VYWQ V L V * 1. V * 2. V * 3. KNR. TLYDOLLKGNAALOTHDVKLODAGVYCGI 82 YLGR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPQDTQEFTGR | 37RP-1 71 N LSGLYVYWQ IENPĒVS V TYYLPYKSPGIN.VDSS LS LVYWQ V LS LVYWQ V LS LVYWQ V L V * 1
 | 37RP-1 71 NILSGILYUYWQIENPEVSUTYYLPYKSPGIN. VDSSS LS L VYWQ V L V 81 FRGRASLPKDQLLKGNAALQITUUKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 49 SILSILVN FWQD QQKLN LIYEHYLGILEKHDSVNAK
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37RP-1 71 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGLN.VDSS
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 | 49 SILSILVV FWQD QQKLV LYEHYLGILEKHDSVNAK
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 | 49 SILSILVV FWQD QQKLV LYEHYLGILEKHDSVNAK
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ V LS L VYWQ V L V * 1 VYWQ V L V * 1 VYWQ V S1 FRGRASLPKDQLLKGNAALQIHDVKLQDAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 37RP-1 71 N LS GLYVYWQ ENPENSYTYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITTDWKLQDAGVYCGI 91 YKNR.TLYDNT.TYSLITTGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 37RP-1 71 NILSGILYUYWQIENPEVSUTYYLPYKSPGIN. VDSSS LS LVYWQ V 181 FRGRASLPKDQLLKGNAALQITUVKQDAGVYCGI 91 YKNR. TLYDNTTYSLIIILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
 | 49 SILSILVN FWQD QQKLN LIYEHYLGILEKHDSVNAK
37RP-1 71 NILSGLYVYWQIENPEVSVITYYLPYKSPGIN. VDSS
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37RP-1 71 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGLN.VDSS
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 | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ V LS L VYWQ V L V * 1 VYWQ V L V * 1 VYWQ V S1 FRGRASLPKDQLLKGNAALQIHDVKLQDAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 37RP-1 71 N LS GLYVYWQ ENPENSYTYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITTDWKLQDAGVYCGI 91 YKNR.TLYDNT.TYSLITTGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 37RP-1 71 NILSGILYUYWQIENPEVSUTYYLPYKSPGIN. VDSSS LS LVYWQ V 181 FRGRASLPKDQLLKGNAALQITUVKQDAGVYCGI 91 YKNR. TLYDNTTYSLIIILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 49 SILSILVN FWQD QQKLN LIYEHYLGILEKHDSVNAK
37RP-1 71 NILSGLYVYWQIENPEVSVITYYLPYKSPGIN. VDSS
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LS L VYWQ V L V
1 V * 1 V * 1 V * 1 V * 1 V * 1 V * 1 V * 1 V * 2 V * 37RP-1 105 YKNR TLYDNT TYSLITILGLVLSDRGIYSGV SYDGE 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTGR
 | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGLN.VDSS
LS L VYWQ V L V *
LS L VYWQ V L V *
L V *
S1 FRGRASLPKDQLLKGNAALQITUGEVICOR
91 YKNRTLYDNTTYSLITILGLVLSDRGTYSGV
82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF
82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK 1 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V LS L VYWQ V LS L VYWQ V LS L VYWQ V S1 FRGRASLPKDQLLKGNAALQITUGVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRIHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTGR | 63 .ESEDRIYWOKHUKVVLSVIAGKIK.VWPE 49 SILSEILVVFWQDQQKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L V LS L VYWQ 91 YKNRTLYDNTTYSIIILGLVLSDRGVYCCI 92 YKNRTLYDNTTYSIIILGLVLSDRGTYSCV 82 YLGRTSFDRNNWTIRLHNVQ1KDMGSYDCF 837RP-1 105 YKNRGHLSLDSMKQGNESIYLKNVTPQDTQEFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WWPE 49 SILSEILVVFWQD QQKLVLYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVITYYLPYKSPGIN. VDSS LS L VYWQ V L V LS L VYWQ 91 YKNR TLYDNT TYSILILIGIVLSDRGIYSGV 82 YIGR TSFDRN NWTIRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNESIYLKNVTPQDTQEFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWOD QOKIVIYEHYLGTEKILDSVNAK 87RP-1 71 NILSGILYVYWOIENPEVSVITYYLPYKSPGIN. VDSSS LS L VYWO V LS L VYWO V L V 81 FRGRASLPKDOLLKGNAALOTTOVKLODAGVYCGI 91 YKNR. TLYDNT TYSLITILGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLRIHNVOIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNESIYLKNVTPQDTQEFTGR
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 | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEWWER. EDEOVIO EVAGEEDERPOHSN 63 ESEDRIYWOR. HDKWULS. VIAGKEK WPE 49 SELSELWWYWQD. QOKLWIYEHYLGTEKEDSWAR 37RP-1 71 NESCLYWWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITUWKLQDAGVYCQI 91 YKNR. TLYDNT. TYSLIILGLYLSDRGIYSGV 82 YEGR. TSFDRN. NWTERLHNVQIKDMGSYDGF 83 YEGR. TSFDRN. NWTERLHNVQIKDMGSYDGF 84 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 1 L. S. L. L. SELCA SAETEVGAMVGSN WVLSCIDPHRRHF 1 L. S. V. L. C. 49 DILALWYWEK. EDEQVIQ. FVAGEED LIKPQHSN 63 . ESEDRIYWGK. HDKVVLS VIAGKLK. WWPE 49 SILSELVYFWQD QQKLVIYEHYLGITEKLDSVNAK 87 RP-1 71 NILSGLYVYWQIENPEVSVIYYLPYKSPGIN. VDSS L. VYWQ. V. L. 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCQI 91 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 84 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLS LCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEUWER. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOR HDKWULS VIAGKEK. WWPE 49 SEBENIYWOD QQKLWIYEHYLGTEKEDSWNAK 37RP-1 71 NESELWWWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDWKLQDAGVYCGI 91 YKNR TLYDNT TYSLIILGLWLSDRGIYSGV 82 YEGR TSFDRN NWTERIHNWQIKDMGSYDGF 83 YEGR TSFDRN NWTERIHNWQIKDMGSYDGF 84 YEGR TSFDRN NWTERIHNWQIKDMGSYDGF | 1 V LL SLCAPSAETEVGANVGSNVVLSCIDPHRRHF LL S LL SSLCAPSAETEVGANVGSNVVLSCIDPHRRHF LL S 49 DELAEVVEWER. EDEQVIQ. FVAGEEDERPQHSN 63 .ESEDRIYWYR HDKVVLS VIAGKEK. WPE 49 SLSEEVVEWQD QQKLVLYEHYLGTEKEDSVNAK 87 RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR TLYDNT TYSLIILIGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLRILHNVQIKDMGSYDGF 83 RNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 1 / VLLISCAPANSVETCARFENGTCYMPGPETRACNIA 1 / VLLISCAPANSVETCARFENGANGSNIVILSCIDPHRRHF 1 L S 4 9 DILAINVYWER. EDEQVIQ. EVAGEEDIRPQHSN 63 .ESEDRIYWGRHDKVVISVIAGKIR. WPE 4 9 SISEINVFWODQOKLVIYEHYLGTEKIDSVNAK 8 1 SISEINVYFWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ 8 1 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCQI 9 1 YKNRTLYDNTTYSLITIGIVUSDRGTYSGV 8 2 YIGRTSFDRNNWTLRITHNVOIKDMGSYDGF 8 3 YIGRTSFDRNNWTLRITHNVOIKDMGSYDGF
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 | 105 KRNKGHLSLDSMKOGNEISLYLKINVI FODI OEFTOR 13 | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTFODTOEFTCR 13 | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ V LS L VYWQ V L V * 1. V * 2. V * 3. KNR. TLYDOLLKGNAALOTHDVKLODAGVYCGI 82 YLGR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPQDTQEFTGR | 37RP-1 71 N LSGLYVYWQ IENPĒVS V TYYLPYKSPGIN.VDSS LS LVYWQ V LS LVYWQ V LS LVYWQ V L V * 1
 | 37RP-1 71 NILSGILYUYWQIENPEVSUTYYLPYKSPGIN. VDSSS LS L VYWQ V L V 81 FRGRASLPKDQLLKGNAALQITUUKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 49 SILSILVN FWQD QQKLN LIYEHYLGILEKHDSVNAK
37RP-1 71 NILSGLYVYWQIENPEVSWIYYYLPYKSPGIN. WDSS LS L VYWQ V L V LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQITDWKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGIYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGLN.VDSS
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L V * L V V * L V V V V V V V V V V V V V V V V V V | 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK 1 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
 | 63 .ESEDRIYWOKHUKVVLSVIAGKIK.VWPE 49 SILSEILVVFWQDQQKIVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L V LS L VYWQ 91 YKNRTLYDNTTYSILITIGLVLSDRGVYCCI 82 YLGRTSFDRNNWTIRLHNVQIKDMGSYDCF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WWPE 49 SILSEILVVFWQD QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVITYYLPYKSPGIN. VDSS LS L VYWQ V L V 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNR TLYDNT TYSLITILGLVLSDRGTYSGV 82 YLGR TSFDRN NWTIRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNESIYLKNVTPQDTQEFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWOD QOKIVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVITYYLPYKSPGIN. VDSSS LS I VYWO V LS I VYWO V L V 81 FRGRASIPKDOLLKGNAALOTTUVKLODAGVYCGI 91 YKNR TLYDNT TYSLITILGIVLSDRGIYSGV 82 YLGR TSFDRN NWTIRLHNVOIKDMGSYDGF 837RP-1 105 YKNRGHLSIDSMKOGNESIYLKNVTPODTQEFTGR | 63 .ESEDRIYWOKHDKVVLSVIAGKIK.VWPE 49 SILSEILVVFWQDQQKLVLYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVITYYLPYKSPGIN.VDSS LS L VYWQ V L V LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQTHDVKLQDAGVYCQI 91 YKNRTLYDNTTYSLITLGLVLSDRGIYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 63 . ESEDRIYWOK . HDKVVLS VIAGKIK. WPE 49 SILSEILVVFWOD . QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWO ENPEVSVTYYLPYKSPGIN. VDSS LS L VYWO V RS1 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCCI 91 YKNR . TLYDNT TYSLITTGLVLSDRGIYSGV 82 YLGR . TSFDRN NWTIRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKOGNFSLYLKNVTPQDTQEFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WWPE 49 SILSEILVVFWOD QOKIVIYEHYLGTHEKIDSVNAK 87RP-1 71 NILSGILYVYWOIENPEVSVITYYLPYKSPGIN. VDSSS LS L VYWO V LS L VYWO 81 FRGRASLPKDOLLKGNAALOTHDVKLODAGVYCGI 91 YKNR. TLYDNT TYSLITILGLVLSDRGIYSGV 82 YLGR TSFDRN NWTLRIHNVOIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTGR
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 | 1 36 LLLSGLCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S V L C V L C 49 DLLALWWER. EDEQVIQ. FVAGEEDLKPQHSN 63 .ESEDRIYWQR. HDKVVLS. VIAGKLK. WPE 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ V L L 81 FRGRASLPKDQLLKGNAALQTTQTTGTKLQDAGVYCGI 91 YKNR. TLYDNT. TYSLITIGLVLSDRGTYSGV 82 YLGR. TSFDRN. NWTLRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEWVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.WPE 49 SELSELVVYWQDQQKLVLYEHYLGTEKEDSWAK 37RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTQTTDVKLQDAGVYCQI 91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV 82 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 84 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S 49 DELAEWVYWEK. EDEOVIO EVAGEEDEKPOHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK, WPE 49 SESEDRIYWOD. OOKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESELVYWO V LS L VYWO V R1 FRGRASLPKDOLLKGNAALOTTOVKLODAGVYCOI 91 YKNR. TLYDNT. TYSLIILGLVLSDRGIYSCV 82 YEGR. TSFDRN. NWTERLHNVOIKDMGSYDCF 84 YEGR. TSFDRN. NWTERLHNVOIKDMGSYDCF 85 YEGR. TSFDRN. NWTERLHNVOIKDMGSYDCF | 1 L S 1 L S 1 L S 1 L S 1 L C 1 L S 4 DILALWINER. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWGK. HDKVVLSVIAGKIK. VWPE 49 SILSEILVVFWQDQQKLVIYEHYLGTEKIDSVNAK 87RP-1 71 NILSGIYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAAIQITDVKLQDAGVYCQI 91 YKNR. TLYDNTTYSLIILGLVLSDRGIYSGV 82 YLGR. TSFDRNNWTIRLHNVQIKDMGSYDGF 83 YLGRTSFDRNNWTIRLHNVQIKDMGSYDGF 84 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 1 S LLLS LCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEWWER. EDEOWIO. FVAGEEDEKPOHSN 63 . ESEDRIYWOR HDKWWLS VIAGKEK. WWPE 49 SEBENIYWOD QOKLWIYEHYLGTEKEDSWNAK 37RP-1 71 NESCLYWWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDOLLKGNAALOTTUWKLODAGVEGI 91 YKNR TLYDNT TYSLITLGLWLSDRGIYSGV 82 YEGR TSFDRN NWTERTHNWOIKDMGSYDGF 84 YKNR TSFDRN NWTERTHNWOIKDMGSYDGF 85 YEGR TSFDRN NWTERTHNWOIKDMGSYDGF 86 YKNRGHLSLDSMKOGNFSLYLKNWTPQDTQEFTGR
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 | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWOD QOKLVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVITYYLPYKSPGIN. VDSSS LS I VYWO V LS I VYWO V L V 91 YKNR TLYDNT TYSLITLGIVLSDRGIYSGV 82 YLGR TSFDRN NWTLRIHNVOIKDMGSYDGF 837RP-1 105 YKNRGHLSIDSMKOGNESLYLKNVTPODTOEFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKLVLYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V LS L VYWQ 91 YKNR. TLYDNT TYSLITLGLVLSDAGVYCCI 82 YLGR. TSFDRN NWTLRLHNVQIKDMGSYDGF 84 YLGR. TSFDRN NWTLRLHNVQIKDMGSYDGF 85 YLGR. TSFDRN NWTLRLHNVQIKDMGSYDGF | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SISEILVVFWOD QOKIVIYEHYLGTEKIDSVNAK 171 NISGIYVYWO V LS I. VYWO R | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WWPE 49 SILSEILVVFWOD QOKIVIYEHYLGTHEKIDSVNAK 87RP-1 71 NILSGILYVYWOIENPEVSVITYYLPYKSPGIN. VDSSS LS I VYWO 81 FRGRASLPKDOLLKGNAALOTHDVKLODAGVYCGI 91 YKNR. TLYDNT TYSLITILGLVLSDRGIYSGV 82 YLGR TSFDRN NWTLRIHNVOIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTGR | 49 DILLALVVYWEK. EDEQVIQ. FVAGEEDILKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKILK. VWPE 49 SLSEILVVFWQD. QQKLVLYEHYLGTFEKILDSVNAK 37RP-1 71 NISGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 91 YKNR. TLYDNT. TYSLIILGIVLSDRGIYSGV 82 YLGR. TSFDRN. NWTIRHHNVQIKDMGSYDGF
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82 YLGR . TSFDRN NWTLRLHNVQIKDMGSYDGF
37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTGR | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
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 | 49 DILLALVVYWEK. EDEQVIQ. FVAGEEDILKPQHSN 63 ESEDRIYWGK. HDKVVLS. VIAGKILK. VWPE 49 SISEILVVFWQD. QQKIVIYEHYLGTTEKIDSVNAK B7RP-1 71 NISGIYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ V LS L VYWQ V S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNR. TLYDNT. TYSIIILGIVLSDRGTYSGV 82 YLGR. TSFDRN. NWTIRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTGR | 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDERFPQHSN 63 . ESEDRIYWOK. HDKVVLSVIAGKEK. WPE 49 SESEDRIYWOD. QQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ V LS I VYWQ 91 YKNR. TLYDNTTYSLITLGTVLSDRGYYCGI 92 YKNR. TLYDNTTYSLITLGTVLSDRGYYSGV 82 YLGR. TSFDRNNWTLRIHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTGR | 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWOK. HDKVVLS VIAGKEK, VWPE 49 SESEDRIYWOD QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGEYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 91 YKNR. TLYDNT TYSLIILGLVLSDRGIYSGV 82 YEGR. TSFDRN NWTERLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTGR | 49 DILALVIVWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK. VWPE 49 SILSEILVVFWQDQQKLVLYEHYLGTEKILDSVNAK 87RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAAIQTTDVKLQDAGVYCQI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTIRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTQR | 49 DELAEUVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVLS VIAGKIK. WPE 49 SLSEILVVFWQD QQKLVIYEHYLGTEKIDSVNAK 37RP-1 71
NILSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ R 1 FRGRASLPKDQLLKGNAALQTTGDAGVYCQI 91 YKNR. TLYDNT TYSLITLGIVLSDRGTYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTGR | 1 LL S V L C LL S 63 .ESEDRIYWOK EDEQVIQ. FVAGEEDIKPOHSN 49 SILSEILVVFWOD QOKLVINEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L V 181 FRGRASLPKDQLLKGNAALQITIDVKLQDAGVYCQI 91 YKNR TLYDNT TYSLIILIGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLRIHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTGR | LL S 49 DELALVEVWER. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEKLOWPE 49 SESELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V 1. VYWQ 91 YKNR TLYDNT TYSLITILGIVLSDRGTYSGV 82 YEGR TSFDRN NWTLRIHNVQIKDMGSYDGF 83 YEGR TSFDRN NWTLRIHNVQIKDMGSYDGF 84 YERHISLDSMKOGNFSLYLKNVTPODTOEFTGR | LL S 49 DELAELVEVENER. EDEQVIQ. FVAGEEDEKPOHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK. VWPE 49 SESEDRIYWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 1 LS L VYWQ 91 YKNRTLYDNTTYSLIILGLYLSDRGIYSGV 82 YEGRTSFDRNNWTLRIHNVQIKDMGSYDGF 83 YEGRTSFDRNNWTLRIHNVQIKDMGSYDGF 84 YEGRTSFDRNNWTLRIHNVQIKDMGSYDGF | LL S LL S V L C LL S 63 . ESEDRIYWER EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWQR HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V LS L VYWQ 91 YKNR . TLYDNT TYSLIILGLYLSDRGIYSGV 82 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDGF 83 YKNR . TSFDRN NWTLRIHNVQIKDMGSYDGF 84 YKNR . TSFDRN NWTLRIHNVQIKDMGSYDGF
 | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C LL S 4 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK. WPE 49 SESEELVVFWQDQQKLVLYEHYLGTEKEDSWNAK 87RP-1 71 NEGELYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTGTKCDAGVYCQI 91 YKNRTLYDNTTYSLITLGLVLSDRGIYSGV 82 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 84 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEWWEKEDEOVIO.FVAGEEDEKPOHSN 63 .ESEDRIYWOKHDKVVLSVIAGKEK.WPE 49 SELSELVVYWQDQOKLVLYEHYLGTEKEDSWAK 37RP-1 71 NESELVVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDWKLQDAGVYCGI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 84 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 85 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 S LLLSELCAASAETEVGAMVGSN V VLSCIDPHRRHF 1 L S 49 DLLALVVVWEK. EDEQVIQ. EVAGEEDLKPQHSN 63 .ESEDRIYWQK. HDKVVLS VIAGKLK. VWPE 49 SLSELVVVWQD QQKLVIYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVVWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR. TLYDNT TYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRN NWYLRLHNVQIKDMGSYDQF 84 YLGR. TSFDRN NWYLRLHNVQIKDMGSYDQF 85 YLGR. TSFDRN NWYLRLHNVQIKDMGSYDQF | 1 L S 1 L S 1 L S 1 L S 1 L S 1 L S 2 L C 4 D DL LALVYWER EDEQVIQ. FVAGEEDLKPQHSN 63 . ESEDRIYWGR HDKVVLS VIAGKLK. VWPE 4 SLSELVVYWQD QQKLVIYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ 1 L VYWQ 1 L VYWQ 1 L VYWQ 2 L V 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR . TLYDNT TYSLITILGLVLSDRGTYSGV 82 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDQF 84 YKNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTGR | 1 S LLLS LCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAELWER. EDEQVIO. FVAGEEDERPOHSN 63 .ESEDRIYWOR HDKVVLS VIAGKER. WPE 49 SEELVVFWQD QQKLVLYEHYLGTEKEDSWNAK 17 NLSGLYVYWQ I ENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAATQTTDVKLQDAGVYCQI 91 YKNR . TLYDNT TYSLIILIGLWLSDAGVYCQI 82 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDQF 84 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDQF 85 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDQF 86 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDQF
 | 1 V LLISELCA ASAETEVGANVESNING I SCHENTRHF LL S LL SELCA ASAETEVGANVESNING I SCHENTRHF V L C 49 DELA ELIVAT WOK. HDKVVLS. VIAGKELD WPE 49 SELEL VVFWOD. QOKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NESCLYVYWO V V L V * LS L VYWO V 1S L VYWO V | 1 / VLLISCAPANSVETCARFENGTCYMPCFETCACNT 1 / VLLISCAPANSVETCARFENGANGSNIVILSCIDPHRRHF 1 L S 4 9 DILAINVYWEREDEQVIQ.FVAGEEDIRPQHSN 63 .ESEDRIYWYWERHDKVVISVIAGKIR.WPE 4 9 SLSEINVFWQDQQKLVIYEHYLGTEKIDSVNAK 87RP-1 71 NISGIYWYWQIENPEVSVIYYLPYKSPGIN.WDSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNRTLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDQF 83 YRNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTGR | 17 VLLISCAASAETEVGAMVGSNVVLPGPETKAQNI LL S LL S 49 DELAEVTWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK. HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWOK HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWOD QQKLVIYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V 1 V * 81 FRGRASLPKDQLLKGNAALQITIQVKLODAGVYCQI 91 YKNR. TLYDNT TYSLIILIGLVLSDRGIYSGV 82 YLGR. TSFDRN NWTLRLHNVQIKDMGSYDQF 84 YKNR. LSFDRN NWTLRLHNVQIKDMGSYDGF | | | | | | |
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 | | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
87RP-1 105 YKNRGHI,SLDSMKOGNHSLYLKNVTPODTOEFTCR 13 | 37RP-1 105 YKNRGHI,SLDSMKOGNHSLYLKNVTPODTOEFTCR 13 | 37RP-1 71 NILSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V * R1 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR.TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSTDSMKOGNFSLYLKNVTPODTOFFTGR | 37RP-1 71 N LSGLYVYWQ IENPĒVS V TYYLPYKSPGIN. V DSS LS L VYWQ V LS L VYWQ 1
 | 37RP-1 71 NILSGILYVYWQIENPEVSWIYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ V L V * L V * 1 VYWQ V L V * S1 FRGRASLPKDQLLKGNAALQIHDVKLQDAGVYCQI 91 YKNR.TLYDNTTYSLIILGLVLSDRGIYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSIDSMKOGNFSLYLKNVTPODTOFFTGR | 49 SILSILVN FWQD QQKLN LJYEHYLGILEKHDSVNAK
37RP-1 71 NILSGLYVYWQIENPEVSVITYYLPYKSPGIN. VDSS
LS L VYWQ V L V
18 L VYWQ V L V
81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI
91 YKNR . TLYDNT TYSLITILGLVLSDRGTYSGV
82 YLGR . TSFDRN NWTLRLHNVQIKDMGSYDGF
37RP-1 105 YKNRGHLSTDSMKOGNFSLYLKNVTPODTOFFTGR | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V L V
1 VYWQ L V
81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI
91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV
82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF
37RP-1 105 YKNRGHLSTDSMKOGNFSLYLKNVTPODTOFFTGR | 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK 1 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQTTGLYKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLYLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 87 RP-1 105 YKNRGHLST,DSMKOGNFSLYLKNVTPODTOFFTGR
 | 63 .ESEDRIYWOKHUKVVLSVIAGKIK.VWPE 49 SILSEILVVFWQDQQKIVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQITUVKLODAGVYCGI 91 YKNRTLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSTDSMKOGNFSLYLKNVTPODTOFFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SISEIVVFWQD QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIENPEVSVIYYLPYKSPGIN. WDSS LS L VYWQ V L V 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCQI 91 YKNR . TLYDNT TYSIIILGLVLSDRGIYSGV 82 YLGR . TSFDRN NWTIRLHNVQIKDMGSYDGF 83 YKNRGHLSI,DSMKOGNFSLYLKNVTPODTOFFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKLK. VWPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. WDSS LS L VYWQ V L V LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQTTGTTGAGVYCGI 91 YKNR TLYDNT TYSLITLGLVLSDRGVYCGI 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLST. DSMKOGNFSLYLKNVTPODTOFFTGR | 63 . ESEDRIYWOK HDKVVLS VIAGKLK. VWPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 1 VKNR . TLYDNT TYSLITLGLVLSDAGVYCGI 91 YKNR . TLYDNT TYSLITLGLVLSDRGTYSGV 82 YLGR . TSFDRN NWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLST. DSMKOGNFSLYLKNVTPODTOFFTGR | 63 ESEDRIYWOK. HOKVVLS VIAGKIK. WPE 49 SISEIVVFWOD QOKLVIYEHYLGTEKIDSVNAK B7RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO V LS L VYWO V LS L VYWO V L V S1 FRGRASLPKDOLLKGNAALOTTUVKLODAGVYCGI 91 YKNR TLYDNT TYSLITILGLVLSDRGTYSGV 82 YLGR TSFDRN NWTIRLHNVOIKDMGSYDGF 83 YKNRGHLSI,DSMKOGNFSLYLKNVTPODTOFFTGR | 63 .ESEDRIYWOK HDKVVLS VIAGKIK . WPE 49 SILSEILVVFWQD QQKLVLYEHYLGTEKILDSVNAK 37RP-1 71 NISGILYVYWQ
 | 49 DILLALVVYWEK. EDEOVIO. FVAGEEDIKPOHSN 63 ESEDRIYWOK. HDKVVIS. VIAGKIK. VWPE 49 SISELVVFWOD. QOKIVIYEHYLGTEKIDSVNAK B7RP-1 71 NISGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWO V LS L VYWO | 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWOK. HDKVVLSVIAGKEK. WPE 49 SESEDRIYWOD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ V LS I VYWQ 91 YKNR. TLYDNTTYSLIILGIVLSDRGTYSGV 82 YEGR. TSFDRNNWTERLHNVQIKDMGSYDGF 83 YKNRGHI,SLDSMKOGNFSLYLKNVTPODTOFFTGR | 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLS VIAGKEK, VWPE 49 SESEDRIYWQD QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 181 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR. TLYDNT TYSLITIGLVLSDRGIYSGV 82 YLGR. TSFDRN NWTERLHNVQIKDMGSYDGF 77RP-1 105 YKNRGHLSLBRKOGNFSLYLKNVTPODTOEFTQR | 49 DILALVIVINER. EDEQVIQ. FVAGEEDILKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKILK. VWPE 49 SILSEILVVFWQDQQKLVLYEHYLGTEKILDSVNAK 87RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ 1 VYWQ 91 YKNRTLYDNTTYSLIILGLYLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 84 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 85 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 86 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 87 YNRGHLSI.DSMKOGNFSLYLKNVTPODTOFFTQR | 49 DELAEVOYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWOK. HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWOD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 91 YKNR. TLYDNT TYSLIILGLVLSDRGTYSGV 82 YLGR. TSFDRN NWTERLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSIDSMKOGNFSLYLKNVTPODTOFFTGR
 | 1 LL S 4 9 DELALVEVWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK, VWPE 4 9 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NESCLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 91 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSI. DSMKOGNFSLYLKNVTPODTOEFT CR | LL S 49 DELALVEVWER. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEKLDSVNAK 49 SESELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V LS L VYWQ 91 YKNR TLYDNT TYSLITIGIVLSDRGTYSGV 82 YEGR TSFDRN NWTLRIHNVQIKDMGSYDGF 83 YKNRGHLSI. DSMKOGNFSLYLKNVTPODTOEFT OR | LL S 49 DELAEUVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWOK. HDKVVLS VIAGKEK. WPE 49 SESELVYFWQD QQKLVIYEHYLGTEKEDSVNAK B7RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ N L V 1 | LL S LL S V L C LL S 63 . ESEDRIYWER EDEQVIQ. EVAGEEDERPQHSN 63 . ESEDRIYWQR HDKVVLS VIAGKEK. VWPE 49 SLSEEVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V LS L VYWQ 91 YKNR . TLYDNT TYSLIILGLYLSDRGIYSGV 82 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDGF 83 YKNR . TSFDRN NWTLRIHNVQIKDMGSYDGF | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C V L C 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK. WPE 49 SESEELVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NEGELYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAALQITLGLVLSDAGVYCGI 91 YKNRTLYDNTTYSLITLGLVLSDAGVYCGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 84 YKNRTSFDRNNWTLRLHNVQIKDMGSYDGF
 | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEWWER. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWOK. HDKVVLS VIAGKEK WPE 49 SESEDRIYWOD QOKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESELVVYWQIENPEVSWTYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTUKKLODAGVYCQI 91 YKNR. TLYDNT TYSLITLIGLWLSDRGTYSGV 82 YLGR. TSFDRN NWTLRLHNVQIKDMGSYDQF 84 YKNRGHLSIDSMKOGNFSLYLKNVTPODTOEFTGR | 1 S LLLSELCAASAETEVGAMVGSN V VLSCIDPHRRHF 1 L S 49 DLLALVVVWEK. EDEQVIQ. EVAGEEDLKPQHSN 63 .ESEDRIYWQK. HDKVVLS VIAGKLK. VWPE 49 SLSELVVVVWQD QQKLVIYEHYLGTEKLDSVNAK 87 RP-1 71 NLSGLYVVWQIENPEVSVTYLPYKSPGIN. VDSSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR. TLYDNT TYSLITILGLWLSDRGTYSGV 82 YLGR. TSFDRN NWTLRLHNVQIKDMGSYDGF 84 YKNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTGR | 1 L S 1 L S 1 L S 1 L S 1 L S 1 L S 2 L C 4 D DL LALVEWER EDEQVIQ. FVAGEEDLIKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKLK. VWPE 4 9 SLSELVVFWQD QQKLVIYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 1 L VYWQ 1 L L VYWQ 1 L VYWQ 2 L V 4 SLGRASLPKDQLLKGNAALQTHDVKLQDAGVYCQI 9 YKNR . TLYDNT TYSLIHINVQIKDMGSYDQF 8 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDQF 8 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDQF 8 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDQF | 1 S LLLS LCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAELWER. EDEQVIO. FVAGEEDERPOHSN 63 .ESEDRIYWOR HDKVVLS VIAGKER WPE 49 SEELVVFWOD QOKLVLYEHYLGITEKEDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 1 LS L VYWQ 91 YKNR . TLYDNT TYSLIIILGIVISDRGIYSOV 82 YLGR . TSFDRN NWTLRILHNVOIKDMGSYDGF 84 YKNR . TSFDRN NWTLRILHNVOIKDMGSYDGF 85 YKNRGHISINDSMKOGNFSLYLKNVTPODIOEFTGR | 1 V LLISELCA ASAETEVGANVGSNIVILISCI DPHRRHF LL S LLLISELCA ASAETEVGANVGSNIVILISCI DPHRRHF LL S 49 DELA ELVINOR. HDKVVLS. VIAGRELD KNPE 49 SEEDRIYWOK. HDKVVLS. VIAGRELD KNPE 49 SEELVVFWOD. QOKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NESCLYVYWOTENPEVSVTYYLPYKSPGIN. VDSS LS L VYWO 81 FRGRASLPK DOLLKGNAALOTT DVKLODAGVYCO 91 YKNR. TLYDNT. TYSLIILIGLVLSDAGVYCO 82 YLGR. TSFDRN. NWTLRILHNVOTK DMGSYDOF 84 YKNR. TSFDRN. NWTLRILHNVOTK DMGSYDOF
 | 1 / VLLISCAPANSVETCARFENGTCYMPCFETCACNIT 1 / VLLISCAPANSVETCARFENGANGSNIVILSCIDPHRRHF LL S 49 DILAINVYWEREDEQVIQ.FVAGEEDIRPQHSN 63 .ESEDRIYWYWERHDKVVLSVIAGKIR.WPE 49 SLSEINVFWQDQQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIENPEVSVTYYLPYKSPGIN.WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNRTLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 84 YKNRTSFDRNNWTLRLHNVQIKDMGSYDGF | 17 VLLISCADAVSVETQAYFNGTQYLPCPETKAQNI 17 LL S LL | | | | | | | |
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87RP-1 105 VKNRGHISIDSMKOGNESINIKNVIPODTOFFTOR 13 | 37RP-1 105 VKNRGHISIDSMKOGNESINIKNVEDDEDE 11 | 37RP-1 71 NILSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDDSS LS L VYWQ V LS L VYWQ V L V * LS L VYWQ V L V * 1 | 37RP-1 71 N LSGLYVYWQ IENPĒVS V TYYLPYKSPGIN. V DSS LS L VYWQ V LS L VYWQ V R FRGRASLPK D QLLKG N AĀLQIHD V KLQ D ĀGV Y CGI 91 Y KNR. TLY D NT TYSLIHLGLVLS D RGT Y SGV 82 Y LGR. TSF D RN NW TLRLHN V QIK D MGS Y DGF
 | 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ V LS L VYWQ V LS L VYWQ V S1 FRGRASLPKDQLLKGNAALQITDWKLQDAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF | 49 SILSILVN FWQD QQKLN LJYEHYLGILEKHDSVNAK
37RP-1 71 NILSGLYVYWQIENPEVSVITYYLPYKSPGIN. VDSS
LS L VYWQ V L V
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91 YKNR . TLYDNT TYSLITILGLVLSDRGTYSGV
82 YLGR . TSFDRN NWTLRLHNVQIKDMGSYDGF | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS
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91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV
82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF
84 YKNRGHLSTDSMKOGNFSLYNIKNVTPODTOFFTGR | 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK 10 LS L VYWQ 11 L VYWQ 12 L VYWQ 13 L VYWQ 14 LS L VYWQ 15 L VYWQ 16 S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 17 YKNR. TLYDNT. TYSLITLGLVLSDRGTYSGV 16 S2 YLGR. TSFDRN. NWTLRLHNVQIKDMGSYDGF
 | 63 .ESEDRIYWOKHUKVVLSVIAGKIK.VWPE 49 SILSEILVVFWQDQQKIVIYEHYLGTEKILDSVNAK 171 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 91 YKNRTLYDNTTYSIIILGLVLSDRGTYSGV 82 YIGRTSFDRNNWTIRLHNVQIKDMGSYDGF | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SISELVYFWOD QOKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGLYVYWOIENPEVSVIYYLPYKSPGIN. WDSS LS I VYWO V LS I VYWO V L V 81 FRGRASIPKDOLLKGNAALOITHDVKLODAGVYCGI 91 YKNR TLYDNT TYSIIILGLVLSDRGIYSGV 82 YLGR TSFDRN NWTIRLHNVOIKDMGSYDGF 83 YRP-1 105 YKNRGHLSI. DSMKOGNFSI. YHTKNVT PODTOFFT OR | 63 . ESEDRIYWOK HDKVVLS VIAGKLK. VWPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V ERGRASLPKDQLLKGNAALQTHDVKLQDAGVYCGI 91 YKNR . TLYDNT TYSLITLGLVLSDRGTYSGV 82 YLGR . TSFDRN NWTLRLHNVQIKDMGSYDGF | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SILSEILVVFWQD QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V ENGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 91 YKNR TLYDNT TYSLITILGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 83 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF | 63 ESEDRIYMOK. HDKVVLS VIAGKIK. WWPE 49 SISEIVVFWOD. QOKLVLYEHYLGTEKIDSVNAK B7RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ V LS L VYWQ OY V S1 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCGI 91 YKNR. TLYDNT TYSIIILGLVLSDRGIYSGV 82 YLGR. TSFDRN NWTIRLHNVOIKDMGSYDGF | 63 .ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SILSEILVVFWOD QOKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGILYVYWO V LS L VYWO V 18 L L VYWO V 81 FRGRASLPKDOLLKGNAAIOTTDVKLODAGVYCCI 91 YKNR TLYDNT TYSLITTGLVLSDRGTYSCV 82 YLGR TSFDRN NWTIRTHNVOIKDMGSYDGF
 | 49 DILLALVIVIMEK. EDEQVIQ. FVAGEEDIKPOHSN 63 ESEDRIYWQK. HDKVVIS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKILVIYEHYLGTEKILDSVNAK 87RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ V LS I VYWQ 81 FRGRASLPKDQLLKGNAALQITUVKLODAGVYCGI 91 YKNR . TLYDNT TYSLITILGLVLSDRGTYSGV 82 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSI. DSMKOGNFSI. YILKNVT PODTOFFT GR | 49 DILAINVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 . ESEDRIYWOK. HDKVVLSVIAGKIK. VWPE 49 SILSEINVYWQD. QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NILSGLYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ N LS L VYWQ 91 YKNR. TLYDNTTYSIIILGIVLSDRGIYSGV 82 YLGR. TSFDRNNWTIRLHNVQIKDMGSYDGF 84 YKNR. TSFDRNNWTIRLHNVQIKDMGSYDGF 85 YKNR. TSFDRNNWTIRLHNVQIKDMGSYDGF | 49 DELAEVVYWEK EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLSVIAGKEK. VWPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V LS L VYWQ V LS L VYWQ V S1 ERGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR TLYDNTTYSLIILGLVLSDRGTYSCV 82 YLGR TSFDRNNWTLRLHNVQIKDMGSYDGF 84 YKNR TSFDRNNWTLRLHNVQIKDMGSYDGF 85 YKNRGHISLDSMKOGNFSTYTKNVTPODTOFFTQR | 49 DILALVIVWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWOK. HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKLVLYEHYLGTEKILDSVNAK 87RP-1 71 NILSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 91 YKNR. TLYDNT TYSLIILGLVLSDRGTYSGV 82 YLGR. TSFDRN NWTIRLHNVQIKDMGSYDGF 84 YLGR. TSFDRN NWTIRLHNVQIKDMGSYDGF 85 YLGR. TSFDRN NWTIRLHNVQIKDMGSYDGF 86 YLGR. TSFDRN NWTIRLHNVQIKDMGSYDGF | 49 DELAEVOYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWOK. HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKLVIYEHYLGTEKILDSVNAK 37RP-1 71
NILSGILYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V 1 VXWQ 1 VXNR 1 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCQI 91 YKNR TLYDNT TYSLITILGLVUSDRGTYSGV 82 YLGR TSFDRN NWTIRLHNVQIKDMGSYDGF 77RP-1 105 YKNRGHLSIDSMKOGNFSINIKNVTPODTOFFTQR | 1 LL S 4 9 DELALVEVWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK, VWPE 4 9 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESELVVFWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 8 1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 9 1 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 84 YKNRGHLSIDSMKOGNFSINKNVFPODTOFFTQR | LL S 49 DELALVEVWER. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEKL VWPE 49 SEELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 1 LS L VYWQ 1 VKNR TLYDNT TYSLITLGLVLSDAGVYCQI 91 YKNR TLYDNT TYSLITLGLVLSDAGVYCQI 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDQF 84 YLGR TSFDRN NWTLRLHNVQIKDMGSYDQF 85 YLGR TSFDRN NWTLRLHNVQIKDMGSYDQF | LL S 49 DELAEUVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWOK. HDKVVLS VIAGKEK. WPE 49 SESELVYFWOD QOKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS I. VYWQ N 1 | LL S LL S V L C LL S 63 . ESEDRIYWER EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK. VWPE 49 SLSELVVFWQD QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR TLYDNT TYSLITILGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLRIHNVQIKDMGSYDGF 83 YLGR TSFDRN NWTLRIHNVQIKDMGSYDGF
 | 1 S LLLSELCAASAETEVGAMVGSN WYLJSC IDPHRRHF 1 LL S V L C 1 L S 1 L C 1 L C 1 L S 1 SEDRIYWER EDEQVIQ. EVAGEEDLKPQHSN 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 1 LS L VYWQ 2 L V 31 YKNR TLYDNT TYSLITIGLYLSDRGTYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 83 YKNR TSFDRN NWTLRLHNVQIKDMGSYDGF 84 YKNR TSFDRN NWTLRLHNVQIKDMGSYDGF 85 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF | 1 36 LLLSLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEWWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWOKHDKVVLSVIAGKIK.WPE 49 SLSEILVVFWQDQQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.WDSS LS L VYWQ V L C 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCQI 91 YKNRTLYDNTTYSLITILGIVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 84 YKNRTSFDRNNWTLRLHNVQIKDMGSYDGF 85 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 S LLLSELCAASAETEVGAMVGSN V VLSCIDPHRRHF 1 L S 4 DILALVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 . ESEDRIYWOK. HDKVVLSVIAGKIK. VWPE 4 9 SLSELVVYWQD QQKLVIYEHYLGTEKIDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ 1 LS L VYWQ 91 YKNRTLYDNTTYSLITILGLYLSDAGVYCCI 91 YKNRTLYDNTTYSLITILGLYLSDAGVYCCI 82 YLGRTSFDRNNWTLRIHNVQIKDMGSYDGF 84 YKNRGHLSIDSMKOGNFSTYTKNVTPODTOFFTGR | 1 L S 1 L S 1 L S 1 L S 1 L S 1 L S 4 DELAELWERK. EDEQVIQ. FVAGEEDELKPQHSN 63 . ESEDRIYWER HDKVVLS VIAGKEK. VWPE 49 SEBENIYWER HDKVVLS VIAGKEK. VWPE 49 SEBENYIYWED QQKLVIYEHYLGTEKEDSVNAK 87 RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 1 L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR TLYDNT TYSLIIILGLVLSDAGVYCQI 82 YEGR TSFDRN NWTERIHNVQIKDMGSYDGF 84 YEGR TSFDRN NWTERIHNVQIKDMGSYDGF 85 YEGR TSFDRN NWTERIHNVQIKDMGSYDGF 86 YEGR TSFDRN NWTERIHNVQIKDMGSYDGF 87 YENRESTER SAMKOGNERSTYNIKNYT PODTOFFT GR | 1 S LLLS LCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAELWER. EDEQVIQ. FVAGEEDERPOHSN 63 .ESEDRIYWOK HDKVVLS VIAGKEK WPE 49 SEELVVFWOD QOKLVLYEHYLGTEKEDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAALQTTDVKCQI 91 YKNR TLYDNT TYSLITTGLVLSDAGVYCQI 82 YLGR TSFDRN NWYTERIHNVQIKDMGSYDGF 84 YLGR TSFDRN NWYTERIHNVQIKDMGSYDGF 85 YLGR TSFDRN NWYTERIHNVQIKDMGSYDGF 86 YLGR TSFDRN NWYTERIHNVQIKDMGSYDGF 87 YRNR TSFDRN NWYTERIHNVQIKDMGSYDGF
 | 1 V LLISELCA ASAETEV GANVESNING LEGID PHRRHF LL S LL S LL SSLCA ASAETEV GANVESNING LICED TO PHRRHF LL S 49 DELA ELV VEWEN. HDE VICE EDER FRENCHEN WEE 49 SEE DRIYWEN. HDE VVISE HYLGTEKELDS VIN R 37RP-1 71 NESCH VEWEN OOKLVIYEHYLGTEKELDS VIN R LS L VYWEN VEWEN OOKLVIYEHYLGTEKELDS VIN R 1. S L VYWEN VEWEN OOKLVIYEHYLGTEKELDS VIN R 81 FRERASLEK BOLLKEN AALOTTEKL DAGVYCCI 91 YKNR. TLYDNT. TYSEDRN. NWTERLHINVOIK DMGSYDCF 82 YEGR. TSFDRN. NWTERLHINVOIK DMGSYDCF 77RP-1 105 YKNRGHLST DAKKOGNEST KIN WED PODTOFFT CR | 1 / VLLISPANSNETCATENGANGSN W ULSCIDPHRRHF LL S LLLSGLCAASAETEVGANVGSN W ULSCIDPHRRHF LL S 49 D L LA L W VYWE KEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKWVLSVIAGKLK.WWPE 49 S LSEL WVFWQDQQKLVIYEHYLGTEKLDSWNAK 87RP-1 71 N LSGLYWYWQ IENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ | 17 VLLISCADAVSVETQAYFNGTQYLPCPETKAQNI 17 LL S LL | | | | | | |
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 | | 27 PP-1 105 VENECHISIDEM SAMOGNEST VIKNWEDODES 13 | 27 PP-1 105 VENECHT STEPRNNWTIRLHNVOIKDMGSYDCF 11 | 37RP-1 71 NILSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDDSS LS L VYWQ V LS L VYWQ V L V * R1 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF | 37RP-1 71 N LSGLYVYWQ IENPĒVS V TYYLPYKSPGIN. V DSS LS LVYWQ V LS LVYWQ V 1 VKNR 91 YKNR.TLYDNTTYSLIILGLVLSDRGIYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF
 | 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWG | 49 SILSILVV FWQD QQKLVLY EHYLGILEKILDS VNAR. 1 NILSGLYVYWQ | 49 SILSELVVFWQDQQKLVLYEHYLGTEKIDSVNAK
37RP-1 71 NILSGLYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V L V
L V * L V * L VYWQ L VYWQ L VYWQ L VYWQ L V * 1 V * 91 YKNRTLYDNTTYSIIILGLVLSDRGIYSGV
82 YLGRTSFDRNNWTIRLHNVQIKDMGSYDGF | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 1 NLSGLYVYWQ V LS L VYWQ V LS L VYWG V V V NWTLRIHNVQIKDMGSYDGF V V V V V V V V V V V V V | 63 . ESEDRIYWOK HUKVVLS V LAGKIK WPE 49 SISEIVVFWOD QOKIVIYEHYLGTEKIDSVNAK 1 NILSGIYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO 81 FRGRASLPKDOLLKGNAALOTTUKCDAGVYCGI 91 YKNR TLYDNT TYSIIILGLVLSDRGIYSGV 82 YLGR TSFDRN NWTIRLHNVOIKDMGSYDGF | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SILSELVVFWQD QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 81 FRGRASLPKDQLLKGNAAIQITIDVKLQDAGVYCGI 91 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV 82 YLGR TSFDRN NWTIRLHNVQIKDMGSYDGF
 | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWOD QOKILVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWO V L V LS I VYWO V LS I VYWO 91 YKNR TLYDNT TYSLITIGLVISDRGIYSGV 82 YLGR TSFDRN NWTLRIHNVOIKDMGSYDGF 83 YLGR TSFDRN NWTLRIHNVOIKDMGSYDGF | 63 .ESEDRIYWOKHDKVVLSVIAGKIK.VWPE 49 SILSEILVVFWODQQKLVLYEHYLGTEKIDSVNAK B7RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ RS L VYWQ 1 | 63 ESEDRIYMOK. HDKVVLS VIAGKIK. WWPE 49 SISEIVVFWOD. QOKIVIYEHYLGTEKIDSVNAK B7RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO V LS L VYWO V LS L VYWO V LS L VYWO V S1 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCGI 91 YKNR. TLYDNT TYSLITILGLVLSDRGIYSGV 82 YLGR. TSFDRN NWTIRLHNVOIKDMGSYDGF | 63 .ESEDRIYWOK HDKVVIS VIAGKIK . WPE 49 SILSEILVVFWOD QOKIVIYEHYLGTEKIDSWNAK 37RP-1 71 NISGILYVYWO V LS L VYWO V 1. V * 1. L VYWO V 81 FRGRASLPKDOLLKGNAAIOTTGTKLODAGVYCOI 91 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV 82 YLGR TSFDRN NWTIRLHNVOIKDMGSYDGF | 49 DILLALVIVIMEK. EDEQVIQ. FVAGEEDIKPOHSN 63 .ESEDRIYWQK. HDKVVIS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKIVIYEHYLGTEKIDSVNAK 87RP-1 71 NILSGILYVYWQIENPEVSVIYYILPYKSPGIN. VDSS LS I VYWQ V 1
 | 49 DILAINVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIYWOK. HDKVVLSVIAGKIK. VWPE 49 SILSEINVFWQD. QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 91 YKNR. TLYDNTTYSIIILGIVLSDRGIYSGV 82 YLGR. TSFDRNNWTIRLHNVQIKDMGSYDGF 84 YKNR. TSFDRNNWTIRLHNVQIKDMGSYDGF | 49 DELAEVVYWEK EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLSVIAGKEK.VWPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ 91 YKNR TLYDNTTYSLIILGIVLSDAGVYCQI 82 YLGR TSFDRNNWTLRIHNVQIKDMGSYDGF 84 YKNR TSFDRNNWTLRIHNVQIKDMGSYDGF 85 YLGR TSFDRNNWTLRIHNVQIKDMGSYDGF | 49 DILALVIVWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWGK. HDKVVLSVIAGKIK. VWPE 49 SILSEILVVFWQDQQKLVLYEHYLGTEKILDSVNAK B7RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V 1 V * 1 VYWQ 91 YKNRTLYDNTTYSILITIGLVUSDRGTYSGV 82 YLGRTSFDRNNWTIRLHNVQIKDMGSYDGF 84 YLGRTSFDRNNWTIRLHNVQIKDMGSYDGF 85 YLGRTSFDRNNWTIRLHNVQIKDMGSYDGF | 49 DELAEVIVYWEK. EDEQVIQ. FVAGEEDELKPQHSN 63 . ESEDRIYWOK. HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKIVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V 1 VYWQ 1 VXNR 1 FRGRASLPKDQLLKGNAAIQITDVKLQDAGVYCQI 91 YKNR . TLYDNT TYSLITILGIVUSDRGTYSGV 82 YLGR . TSFDRN NWTIRLHNVQIKDMGSYDGF 94 YKNR . TSFDRN NWTIRLHNVQIKDMGSYDGF | 1 LL S 4 9 DELALVEVWEK. EDEQVIQ. FVAGEEDEKPOHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK, VWPE 4 9 SESELVVFWOD QOKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NESGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWO 81 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCOI 91 YKNR TLYDNT TYSLITILGIVLSDRGTYSOV 82 YLGR TSFDRN NWTERLHNVOIKDMGSYDOF 84 YLGR TSFDRN NWTERLHNVOIKDMGSYDOF 85 YLGR TSFDRN NWTERLHNVOIKDMGSYDOF
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 | | 82 YLGR. TSFDRNNWTLRLHNVOIKDMGSYDCF 11 | 82 YLGR. TSFDRN NWTLRLHNVOIKDMGSYDGF 11 | 37RP-1 71 NILSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V LS L VYWQ V S1 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF | 37RP-1 71 N LSGLYVYWQ IENPĒVS V TYYLPYKSPGIN. V DSS LS L VYWQ V LS L VYWQ V LS L VYWQ V * L V *
L V * | 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V * | 49 SILSILVV FWQD QQKLVLYLGILEKHDSVNAR
37RP-1 71 NILSGLYVYWQIENPĒVSVITYYLPYKSPGIN. VDSS
LS L VYWQ V L V
1 VYWQ L V
81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCQI
91 YKNR. TLYDNT TYSLITILGLVLSDRGIYSGV
82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V L V
1 V * L VYWQ L VYWQ L VYWQ L V * L V * L VYWQ
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1S L VYWO V L V
81 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCGI
91 YKNR. TLYDNT. TYSLITLGLVLSDRGTYSGV
82 YLGR. TSFDRN. NWTERLHNVOIKDMGSYDGF | 49 DELAEVVYWER. EDECVIC. FVAGEEDEKPOHSN 63 ESEDRIYWOR. HDKVVLS. VIAGKEK. WWPE 49 SESELVVFWOD. QOKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWO V L V LS L VYWO V L V S1 FRGRASLPKDOLLKGNAALOTTOPKLODAGVYCCI 91 YKNR. TLYDNT. TYSELITLGLVLSDRGTYSCV 82 YLGR. TSFDRN. NWTERLHNVOIKDMGSYDCF | 49 DELAETVEVER. EDEQVIO. FVAGEEDEKPOHSN 63 . ESEDRIYWOK. HDKVVLS VIAGKEK. WWPE 49 SESELVEWOD QOKLVIYEHYLGTEKEDSVNAK B7RP-1 71 NESGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS I. VYWQ V LS I. VYWQ 91 YKNR TLYDNT TYSLIILGLVLSDAGVYCGI 82 YEGR TSFDRN NWTERLHNVOIKDMGSYDGF | 49 DILAINVYWEK. EDEQVIQ. FVAGEEDIRKPQHSN 63 . ESEDRIYWEK. HDKVVLSVIAGKIK. VWPE 49 SILSEINVYFWQD QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71
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 | 49 SILSILVV FWQD QQKLVLYLGILEKHDSVNAR
37RP-1 71 NILSGILYVYWQIENPĒVSVITYYLPYKSPGIN. VDSS
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81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCQI
91 YKNR. TLYDNT TYSLITIGLVISDRGTYSGV
82 YLGR TSFDRN NWTLRIHNVQIKDMGSYDGF | 49 SILSELVVFWQDQQKLVLYEHYLGTEKIDSVNAK
37RP-1 71 NILSGLYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V L V
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91 YKNRTLYDNTTYSLITTGLVLSDRGTYSGV
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 | 1 / VLLISLCAASAETEVGAMVGSNUVLSCIDPHRRHF LL S LL S LL S LL S LL SLCAASAETEVGAMVGSNUVLSCIDPHRRHF LL S LS EEDRIAWOKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWOKHDKVVLSVIAGKIK.VWPE 49 SLSELVVFWODQOKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ LS L VYWQ 81 FRGRASLPKBQLLKGNAALQITIGIVLSDRGIYSGV 91 YKNRTLYDNTTYSLITIGIVLSDRGIYSGV 82 VTGR TSFDRN NWTTRILHNVOIKDMGSVDGF | 17 VLLISDAVSVETQAYFNGTQYIPCPETKAQNI LL S LL |
| | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTOR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTCR 13
 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTOR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTOR 13
 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTOR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTOR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTOR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTOR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTOR 13
 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTOR 13 | | | |
 | | O) WILL TOTALDNI NATIONALDII LINISA | O TATULE TO CENTRAL DIT LINIES | 37RP-1 71 NILSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDDSS LS L VYWQ V LS L VYWQ V LS L VYWQ V L V * 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGTYSGV 02 YFCP REFERENT | 37RP-1 71 N LSGLYVYWQ IENPĒVS V TYYLPYKSPGIN. V DSS LS L VYWQ V LS L VYWQ V R FRGRASLPKDQLLKGNAALQIHDVKLQDAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGTYSGV OO WICH REEDEN
 | 37RP-1 71 NLSGLYVYWQIENPEVSVITYLPYKSPGIN.VDSS LS L VYWQ V 181 FRGRASLPKDQLLKGNAALQITUDVKLODAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGIYSGV 00 WTCD REEDEN | 49 SILSILVVFWQDQQKLVLYLGHYLGHEKHDSVNAK
37RP-1 71 NILSGLYVYWQIENPĒVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V L V
1 VYWQ L V
81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI
91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV
92 VTCD REEDDN NAMMT DI HNYOT KONGENDAG | 49 SILSELVVFWQDQQKLVLYEHYLGTEKIDSVNAK
37RP-1 71 NILSGLYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V
LS L VYWQ V
L V *
L V * | 49 SLSELVVFWQDQQKLVIYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L V 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSQV 92 YKNRTLYDNTTYSLITLGLVLSDRGTYSQV 93 YKNRTLYDNTTYSLITLGLVLSDRGTYSQV 94 YKNRTLYDNTTYSLITLGLVLSDRGTYSQV | 63 . ESEDRIYWOK HDKVVLS V LAGKIK WPE 49 SILSEILVVFWOD QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO 81 FRGRASLPKDOLLKGNAALOITHDVKLODAGVYCGI 91 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 92 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 93 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 94 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 95 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 96 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SILSELVVFWQD QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGLYVYWQIENPEVSVTYYLPYKSPGIN. WDSS LS L VYWQ 1 LS L VYWQ 81 FRGRASLPKDQLLKGNAAIQITIGLVLSDAGVYCGI 91 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV 92 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV 93 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV 94 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV 95 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV
 | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWOD QOKILVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO V L V 1. VYWO 81 FRGRASLPKDOLLKGNAALOTTOPKLODAGVYCCI 91 YKNR TLYDNT TYSLITLGLVLSDRGIYSCV 92 YKNR TLYDNT TYSLITLGLVLSDRGIYSCV 93 YKNR TLYDNT TYSLITLGLVLSDRGIYSCV 94 YKNR TLYDNT TYSLITLGLVLSDRGIYSCV 95 YKNR TLYDNT TYSLITLGLVLSDRGIYSCV 96 YKNR TLYDNT TYSLITLGLVLSDRGIYSCV | 63 .ESEDRIYWOKHDKVVLSVIAGKIK.VWPE 49 SILSEILVVFWODQOKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L V 81 FRGRASLPKDQLLKGNAAIOTTDVKLODAGVYCGI 91 YKNRTLYDNTTYSIIILGLVLSDRGIYSGV 92 YFOR HERERALPKDOLLKGNAAIOTTUGLVLSDRGIYSGV 93 YKNRTLYDNTTYSIIILGLVLSDRGIYSGV 94 YKNRTLYDNTTYSIIILGLVLSDRGIYSGV 95 YFOR HERERALPKD | 63 ESEDRIYMOK. HOKVVIS VIAGKIK. WWPE 49 SISEIVVFWOD. QOKIVIYEHYLGTEKI DSVNAK 37RP-1 71 NISGIYVYWO V LS I VYWO 81 FRGRASIPKOLLKGNAALOTTOVKLODAGVYCCI 91 YKNR. TLYDNT TYSLITIGIVLSDRGTYSCV 92 YKNR. TLYDNT TYSLITIGIVLSDRGTYSCV 93 YKNR. TLYDNT TYSLITIGIVLSDRGTYSCV 94 YKNR. TLYDNT TYSLITIGIVLSDRGTYSCV 95 YKNR. TLYDNT TYSLITIGIVLSDRGTYSCV 96 YKNR. TLYDNT TYSLITIGIVLSDRGTYSCV 97 YKNR. TLYDNT TYSLITIGIVLSDRGTYSCV | 63 .ESEDRIYWOK HDKVVIS VIAGKIK. WPE 49 SILSEILVVFWOD QOKIVIYEHYLGTEKIDSWNAK 37RP-1 71 NISGILYVYWO V LS L VYWO V 1. L VYWO V 81 FRGRASLPKDOLLKGNAAIOTTGLKODAGVYCOI 91 YKNR TLYDNT TYSIIILGLVLSDRGIYSOV 92 YKNR TLYDNT TYSIIILGLVLSDRGIYSOV 93 YKNR TLYDNT TYSIIILGLVLSDRGIYSOV 94 YKNR TLYDNT TYSIIILGLVLSDRGIYSOV 95 YKNR TLYDNT TYSIIILGLVLSDRGIYSOV 96 YKNR TLYDNT TYSIIILGLVLSDRGIYSOV 97 YKNR TLYDNT TYSIIILGLVLSDRGIYSOV | 49 DILLALVIVIMEN. EDEQVIQ. FVAGEEDIR PQHSN 63 . ESEDRIYWQK HDKVVIS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKIVIYEHYLGTEKIDSVNAK 87RP-1 71 NILSGILYVYWQIENPEVSVIYYILPYKSPGIN. VDSS LS I VYWQ V LS I VYWQ 1
 | 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK WPE 49 SESELVYFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQ1ENPEVSVTYYLPYKSPGIN VDSS LS L VYWQ V LS L VYWQ V 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV 92 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV 93 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV 94 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV 95 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV | 4 9 DELAEVVYWER. EDECVIC. EVAGEEDEKPOHSN 63 ESEDRIYWOR. HDKVVLS. VIAGKEK. WWPE 4 9 SESELVYFWOD. QOKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWO V LS I VYWO 91 YKNR. TLYDNT. TYSELIILGIVLSDRGIYSGV 92 YKNR. TLYDNT. TYSELIILGIVLSDRGIYSGV 93 YKNR. TLYDNT. TYSELIILGIVLSDRGIYSGV 94 YKNR. TLYDNT. TYSELIILGIVLSDRGIYSGV 95 YKNR. TLYDNT. TYSELIILGIVLSDRGIYSGV | 49 DELAEUVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK. HDKVVLS VIAGKEK. WWPE 49 SESELVYFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ LS I VYWQ 18 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 91 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 92 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 93 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 94 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 95 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 96 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 97 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV | 49 DILAINVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKIK. WPE 49 SILSEILVVFWQD. QQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS I VYWQ 1 L VYWQ 91 YKNR. TLYDNT. TYSIIILGIVLSDAGVYCQI 92 YKNR. TLYDNT. TYSIIILGIVLSDRGIYSQV 93 YKNR. TLYDNT. TYSIIILGIVLSDRGIYSQV 94 YKNR. TLYDNT. TYSIIILGIVLSDRGIYSQV 95 YKNR. TLYDNT. TYSIIILGIVLSDRGIYSQV 96 YKNR. TLYDNT. TYSIIILGIVLSDRGIYSQV | 1 LL S 4 9 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. WWPE 4 9 SESEDRIYWYWDD QQKLVIYEHYLGTEKEDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ LS L VYWQ 91 YKNR TLYDNT TYSLIILGLVLSDAGVYCQI 92 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 93 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 94 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 95 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 96 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 97 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV 97 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV
 | 1 LL S 4 9 DELLAEUVYWER. EDEQVIO FVAGEEDEKPOHSN 63 .ESEDRIYWOR. HDKVVLSVIAGKER. WWPE 4 9 SESEDRIYWOD. QOKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWO 81 FRGRASLPKDOLLKGNAALOTTUKLODAGVYCCI 91 YKNR. TLYDNTTYSLITLGLYLSDRGIYSCV 92 YKNR. TLYDNTTYSLITLGLYLSDRGIYSCV 93 YKNR. TLYDNTTYSLITLGLYLSDRGIYSCV 94 YKNR. TLYDNTTYSLITLGLYLSDRGIYSCV 95 YKNR. TLYDNTTYSLITLGLYLSDRGIYSCV 96 YKNR. TLYDNTTYSLITLGLYLSDRGIYSCV 97 YKNR. TLYDNTTYSLITLGLYLSDRGIYSCV 97 YKNR. TLYDNTTYSLITLGLYLSDRGIYSCV 98 YKNR. TLYDNTTYSLITLGLYLSDRGIYSCV 99 YKNR. TLYDNTTYSLITLGLYLSDRGIYSCV 90 YKNR. TLYDNYTYSLITLGLYLSDRGIYSCV 90 YKNR. TLYDNYTYSLYLDRGIYSCV 90 YKNR. TYSLYLDRGIYSCV 90 YKNR. TYSLYLDRGIYSCV 90 YKNR. TYSLYLDRGIY TYSLYLDRGIYSCV 90 YKNR. TYSLYLDRGIYSCV 90 YKNR. TYSLYLDRGIY T | LL S 63 . ESEDRIYWEK EDEQVIQ . EVAGEEDIKPQHSN 64 9 SILSEINVFWQD QQKLVIYEHYLGTEKIDSVNAK 87RP-1 71 NILSGIYVYWQIENPEVSVTYYLPYKSPGIN . VDSS LS L VYWQ 1 | LL S V L C 49 DELAEVVYWEK. EDEOVIO. FVAGEEDEKPOHSN 63 .ESEDRIYWOK. HDKVVLSVIAGKEK. VWPE 49 SESEDRIYWOD QOKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWO V L 81 FRGRASLPKDOLLKGNAALOTTUVKEODAGVYCCI 91 YKNR TLYDNTTYSLIILGIVLSDRGIYSCV 92 YKNR TLYDNTTYSLIILGIVLSDRGIYSCV 93 YKNR TLYDNTTYSLIILGIVLSDRGIYSCV 94 YKNR TLYDNTTYSLIILGIVLSDRGIYSCV 95 YFCD | 1 S LLLSSLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C 49 DELAEWWER. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWWER. HDKVWLS. VIAGKELDKWPE 49 SESELVWFWQD. QQKLWLYEHYLGTEKEDSWNAK 87RP-1 71 NLSGLYWYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L V LS L VYWQ 91 YKNR. TLYDNT. TYSELIILGIVLSDAGVYCQI 92 YKNR. TLYDNT. TYSELIILGIVLSDRGTYSCV 93 YKNR. TLYDNT. TYSELIILGIVLSDRGTYSCV 94 YKNR. TLYDNT. TYSELIILGIVLSDRGTYSCV | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S 49 DELAEVVWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWOK HDKVVIS VIAGKEKLDSVNAK 49 SELELVVFWQD QQKLVIYEHYLGTEKLDSVNAK 87 RP-1 71 NESELVVFWQIENPEVSVTYYLPYKSPGIN. WDSS LS I VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNRTLYDNT TYSLIILGIVLSDRGTYSGV
 | 1 S LLLSELCAASAETEVGAMVGSN V VLJSCIDPHRRHF LL S 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWYK. HDKVVLS VIAGKEK. WPE 49 SEEDRIYWYWOD QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NEGLYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDOLLKGNAALQTTDVKLODAGVYCQI 91 YKNR TLYDNT TYSLIILGIVLSDRGTYSGV | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEVWER. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLSVIAGKEKLOWPE 49 SESEDRIYWQD. QQKLVIYEHYLGTEKEDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDWKLQDAGVYCQI 91 YKNR. TLYDNTTYSLITIGLWLSDRGTYSGV | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S 4 DLLALWWER. EDEOVIO. FVAGEEDLKPOHSN 63 ESEDRIYWOK. HDKVVLSVIAGKLK.WWPE 49 SLSELVVFWQD QQKLVIYEHYLGTEKLDSWNAK 17 NLSGLYWWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDWKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLWLSDRGTYSGV | 1 V LLISELCA ASAETEVGAMVGSNIVILSCID PHRRHF 1L S 49 DILAINVYWEK. EDEQVIQ. EVAGEEDIK POHSIN 63 ESEDRIYWOK. HDKVVISVIAGKIK. WPE 49 SILSELIVVYWQIENPEVSVIYYILYKSPGIN. VDSS 1S L VYWQ 1S L VYWQ 91 YKNR. TLYDNTTYSLIILGIVISDRGTYSGV 92 YKNR. TLYDNTTYSLIILGIVISDRGTYSGV 93 YKNR. TLYDNTTYSLIILGIVISDRGTYSGV 94 YKNR. TLYDNTTYSLIILGIVISDRGTYSGV | 1 / VLLISLCAASAETEVGAMVGSNVVLSCEDERACNIA 1 LL S 1 L S 4 DELAELVEAREK. EDEQVIQ. FVAGEEDEKPOHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWOK HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLODAGVYCQI 91 YKNR TLYDNT
TYSLIILGLVLSDRGTYSGV 92 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV 93 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV 94 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV 95 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV 96 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV | 17 VLLISPAVSVETQAYFNGTQYIPCPETKAQNI 18 LLLSSLCAASAETEVGAMVGSNWVLSCIDPHRRHF 19 DILAIVVYWEREDEQVIQ.FVAGEEDIKPQHSN 63 .ESEDRIYWYKHDKVVLSVIAGKIK.WPE 49 SISEILVVFWQDQQKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVIYYILPYKSPGIN.WDSS LS I VYWQ 81 FRGRASLPKDQLLKGNAAIQITDVKLQDAGVYCQI 91 YKNRTLYDNTTYSLITIGIVLSDRGTYSGV 92 YTCD TEEDN |
| | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13
 | 37RP-1 105 VKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13
 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13
 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13 | | | |
 | | | | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V R FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGTYSGV | 37RP-1 71 N LSGLYVYWQ IENPĒVS V ĪYYLPYKSPGIN. V DSS LS L VYWQ V LS L VYWQ V RST FRGRASLPKDQLLKGNAĀLQITIDVKLQDĀGVYCGI 91 YKNR. TLYDNTTYSLITIGLVILSDRGTYSGV
 | 37RP-1 71 NILSGILYVYWQIENPĒVSWITYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ V LS L VYWQ V L V * L V V * L V V V V V V V V V V V V V V V V V V | 49 SILSELLVVFWQDQQKLVLYEHYLGIJEKLDSVNAK
37RP-1 71 NILSGLYVYWQIENPĒVSVITYYLPYKSPGIN.VDSS
LS L VYWQ V
LS L VYWQ V
L V *
L | 49 SILSELVVFWQDQQKLVLYEHYLGTEKIDSVNAK
37RP-1 71 NILSGLYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V L V
LS L VYWQ V L V
81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI
91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV | 49 SISEILVVFWQDQQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPĒVSVITYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQITUGVKLQDAGVYCGI 91 YKNRTLYDNTTYSLITIGLVLSDRGTYSGV | 63 . ESEDRIYWOK | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SILSEILVVFWQD QQKIVIYEHYLGTEKI DSVNAK 37RP-1 71 NISGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ
 | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWOD QOKLVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS I VYWO V RS1 FRGRASLPKDOLLKGNAALOTTUGVKLODAGVYCGI 91 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKLVLYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVITYYLPYKSPGIN. VDSSS LS L VYWQ 0 L V 1 L VYWQ 1 YKNR TLYDNT TYSLIILGLVLSDAGVYCGI | 63 ESEDRIYMOK. HDKVVLS VIAGKLK. VWPE 49 SLSELVYFWOD QOKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWO V LS L VYWO V 81 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCCI 91 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV | 63 . ESEDRIYWOK . HDKVVLS VIAGKIK . WPE 49 SILSEILVVFWOD QOKLVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVTYYLPYKSPGIN . VDSS LS L VYWO V LS L VYWO 91 YKNR . TLYDNT TYSLITLGLVLSDRGTYSGV 91 YKNR . TLYDNT TYSLITLGLVLSDRGTYSGV | 49 DILLALVVYWEK. EDEQVIQ. FVAGEEDIKPOHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKIK. VWPE 49 SILSEILVVFWQD. QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ V L V 81 FRGRASLPKDQLLKGNAALQITIQVKLQDAGVYCGI 91 YKNR. TLYDNT. TYSLIILGLVLSDRGTYSGV
 | 49 DILAIVVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKIK. WPE 49 SILSEILVVFWQD. QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGILYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 1 LS L VYWQ 91 YKNR. TLYDNT. TYSIIILGLVLSDAGVYCGI | 4 9 DELAEVVYWER. EDECVIC. EVAGEEDEKPOHSN 63 ESEDRIYWOR. HDKVVLS. VIAGKEK. WPE 49 SESELVYFWOD. OOKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSSS LS I VYWQ 1 LS I VYWQ 1 L V | 49 DELAEUVEWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWEK. HDKVVLS VIAGKEK. WPE 49 SESELVEWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. WDSS LS L VYWQ V 1S L VYWQ L 1S L VYWQ V 1S L V | 49 DILAIVVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS I VYWQ 1. | LL S 4 9 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK. HDKVVLS VIAGKEK. WWPE 4 9 SESEDRIYWYWOD QQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS I VYWQ 1 LS I VYWQ 91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV | LL S 49 DELAEVVYWER. EDEQVIQ. FVAGEEDERPQHSN 63 ESEDRIYWOR. HDKVVLS. VIAGKER. WPE 49 SESELVYFWOD. QOKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ N L 81 FRGRASLPKDQLLKGNAALOTTDVKLODAGVYCGI 91 YKNR. TLYDNT. TYSLITLGLVLSDRGTYSGV | LL S 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK WPE 49 SESELVYFWQD QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQ1ENPEVSVTYYLPYKSPGIN.
VDSS LS L VYWQ LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTGTGDAGVYCG1 91 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV | LL S V L C 49 DELAEVVYWEK. EDEOVIO. FVAGEEDEKPOHSN 63 .ESEDRIYWOK. HDKVVLSVIAGKEK. VWPE 49 SESELVVFWOD. QOKIVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWO V L 81 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCGI 91 YKNR. TLYDNTTYSLITLGIVLSDRGTYSGV | 1 S LLLSSLCARSAETEVGAMVGSN W V L SCIDPHRRHF LL S V L C 49 DELAEWWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.WPE 49 SELSEHVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87 RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ 1 LS L VYWQ 91 YKNRTLYDNTTYSLIILIGLVLSDRGTYSGV 92 YKNRTLYDNTTYSLIILIGLVLSDRGTYSGV | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S 49 DLLALWWEK. EDEQVIQ. FVAGEEDLKPQHSN 63 ESEDRIYWOK. HDKVVLSVIAGKLK.WPE 49 SLSELWVFWQD QQKLVIYEHYLGTEKLDSWNAK 171 NLSGLYWYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDWKLQDAGWYCQI 91 YKNR.TLYDNTTYSLITIGIVLSDRGTYSGV | 1 S LLLSELCAASAETEVGAMVGSN W VLJSCIDPHRRHF LL S 49 DELAEWVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWOK. HDKVVLS VIAGKEKLDSVNAK 49 SESEDRIYWYWOD QQKLVIYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWOIENPEVSWIYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR. TLYDNT TYSLITLGIVLSDRGTYSOV
 | 1 S LLISELCAASAETEVGAMVGSNŪVILSCIDPHRRHF LL S 49 DELAEVVWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWOK. HDKVVLS VIAGKEK, VWPE 49 SLSELVVFWOD QOKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NLSGLYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO 81 FRGRASLPKDQLLKGNAALOTTDVKLODAGVYCQI 91 YKNR. TLYDNT TYSLIILGIVLSDRGTYSOV | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S 4 DLLALWYWER. EDEOVIO. FVAGEEDLKPOHSN 63 .ESEDRIYWFWOR HDKVVLS VIAGKLK. WPE 49 SLSELNWFWOD QOKLWIYEHYLGITEKLDSWNAK 17 NLSGLYWYWOIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWO 81 FRGRASLPKDOLLKGNAALOITUSWKLODAGVYCCI 91 YKNR TLYDNT TYSLIILIGLVLSDRGTYSOV | 1 V LLISELCA ASAETEV GAMV GSN VL C LL S LL S V L C 49 DELAEV V V MEK. EDE QVIQ. EVA GEEDEK POHSIN 63 . ESEDRIY W W K HDKV V LS VIA GKEK. V WPE 49 SELSELV V F W QD QOKL V LY EHYLGTEKELDS V NAK 10 LS L V Y W Q 11 LS L V Y W Q 12 L V Y W Q 13 L V Y W Q 14 SELS RASL P K D CLIK GNA A L CT T D V K COT 15 L V Y W Q 16 L C C C C C C C C C C C C C C C C C C | 1 / VLLISLCAASAETEVGAMVGSNVVLSCEDERACNIA 1 LL S 1 LL S 1 LL SSLCAASAETEVGAMVGSNVVLSCIDPHRRHF 1 L S 4 9 DELAEVVVWEK. EDEQVIQ. FVAGEEDEKPQHSN 6 3 .ESEDRIYWFW, HDKVVLSVIAGKEK. VWPE 4 9 SESEDRIYWFW, HDKVVLSVIAGKEK. VWPE 4 9 SESEDRIYWFW, HDKVVLSVIAGKEK. VWPE 5 1 L VYWQ 1 | 17 VLLISDAVSVETQAYFNGTQYLPCPETKAQNI 17 LLISELCAASAETEVGAMVGSNVVLSCIDPHRRHF 1L S 49 DLLALVVVWEREDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWFWQKHDKVVLSVIAGKLK.VWPE 49 SLSELVVFWQDQQKLVIYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVVWQIENPEVSVTYYLPYKSPGIN.VDSS 1. L VYWQ 1. L VYWQ 2. L VYWQ 31 YKNRTLYDNTTYSLITLGLYLSDRGIYSCV 40 YKNRTLYDNTTYSLITLGLYLSDRGIYSCV |
| SZ Y LGK. TSHUKIVINWITEKHIN V LI KULTUKI TEKHIN V LI KULTUKI TEHNI TEHN | 37RP-1 105 VKNRGHLSLDSMKOGNFSLYLKNVTPODTOEFTCR 13 | 37RP-1 105 VKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKNVTPODTOEFTOR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13
 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13
 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTQR 13
 | | | | SZ Y LGK. TSHUKIVINWITEKHIN V LI KULTUKI TEKHIN V LI KULTUKI TEHNI TEHN | 2 I I CI | |
 | 37RP-1 71 N ls G lyvywo ienpevs v tyylpykspcin. v dss
Ls L vywo v L v *
ls L vywo v L v *
81 Frgraslpk d ollkg n aalothd v klodagv y cqi
91 y knr. tlydnttysliilglylsdrgtysgv | 37RP-1 71 N LSGLYVYWQ IENPĒVS V ĪYYLPYKSPGIN. V DSS
LS L VYWQ V L
R FRGRASLPK D QLLKG N AĀLOTHD V KLODĀGV Y CGI
91 Y KNR. TLY D NTTYSLITLGLVLSDRGT Y SGV | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV | 49 SILSILVV FWQD QQKLVLYEHYLGILEKILDSVNAK
37RP-1 71 NILSGLYVYWQIENPEVSVITYYLPYKSPGIN. VDSS
LS L VYWQ V L V
LS L VYWQ L V *
LS L VYWQ L V
81 FRGRASLPKDQLLKGNAALQITUVKQDAGVYCQI
91 YKNR. TLYDNT TYSLIILGLVLSDRGTYSGV
 | 49 SILSEILVVFWQDQQKLVLYEHYLGTEKILDSVNAK
37RP-1 71 NILSGILYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V L V *
LS L VYWQ V L V *
181 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI
91 YKNRTLYDNTTYSIIILGLVLSDRGTYSGV | 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV | 63 .ESEDRIYWOKHUKVVLSVIAGKIK.VWPE
49 Silseinvewodookiviyehyighekidsvanak
37rp-1 71 nilsinvewoienpevsviyyilpykspgin.Vdss
Ls i vywo v l v
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81 Frgrasipkolikgnatotruvkiodagvycqi
91 Yknr. tlydnttysliilgivlsdrgtysqv | 63 . ESEDRIYWOK | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWOD QOKIVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVITYYLPYKSPGIN. VDSSS LS L VYWO V L V 81 FRGRASLPKDOLLKGNAALOTTOTTOTKODAGVYCGI 91 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV
 | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKLVLYEHYLGTEKI DSVNAK 37rp-1 71 nilsgilyvywqienpevsvityylpykspgin. Vdss LS L VYWQ V R | 63 ESEDRIYMOK. HDKVVLS VIAGKIK. WWPE 49 SILSEILVVFWOD QOKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ V L V S1 FRGRASLPKDOLLKGNAALOTTOTTOTAGVYCCI 91 YKNR. TLYDNT TYSLIILGLVLSDRGIYSGV | 63 . ESEDRIYWOK . HDKVVIS VIAGKIK. WWPE 49 SILSEILVVFWOD . QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ V 181 FRGRASLPKDOLLKGNAALOTTUKLODAGVYCGI 91 YKNR . TLYDNT TYSLIILGLVLSDRGIYSGV | 49 DILLALVVYWEK. EDEQVIQ. FVAGEEDIKPOHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKIK. VWPE 49 SILSEILVVFWQD. QQKLVLYEHYLGTEKIDSVNAK B7RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ V LS L VYWQ V S1 FRGRASLPKDQLLKGNAAIQITHDVKLQDAGVYCGI 91 YKNR. TLYDNT. TYSLIILGLVLSDRGTYSGV | 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVIS. VIAGKIK. VWPE 49 SILSEIVVFWQD. QQKLVIYEHYLGTEKIDSVNAK 87RP-1 71 NISGIYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ 1 LS I VYWQ 1 L VYWQ 91 YKNR. TLYDNT. TYSIIILGIVLSDRGIYSGV
 | 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWOK. HDKVVLS VIAGKEK. WPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS I VYWQ V LS I VYWQ V LS L VYWQ V 1 VYWQ V 2 VYWQ V 2 VYWQ V 2 VYWQ V 3 VYWQ V 4 VYWQ V 6 VYWQ V 7 VYWQ V 7 VYWQ V 7 VYWQ V 8 VYWQ | 4 9 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWQK. HDKVVLS VIAGKEK. VWPE 4 9 SESELVYFWQD QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNR. TLYDNT TYSLIILGLVLSDRGTYSGV | 49 DILAINVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 .ESEDRIYWQK. HDKVVISVIAGKIK. VWPE 49 SILSEILVVFWQDQQKILVIYEHYLGTEKIDSVNAK 87RP-1 71 NILSGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS I VYWQ 1 LS I VYWQ 91 YKNR. TLYDNTTYSIIILGIVLSDAGVYCGI | LL S 4 9 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK. VWPE 4 9 SESELVYFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS I VYWQ 1 | LL S 49 DELAEVVYWER. EDEQVIQ. FVAGEEDERPQHSN 63 .ESEDRIYWQRHDKVVLSVIAGKER. VWPE 49 SESELVVFWQDQQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTGTGGAGVYCGI 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV
 | LL S 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWQK. HDKVVLS VIAGKEK. WPE 49 SESELVYFWQD QQKLVIYEHYLGTEKEDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ 1 LS I VYWQ 91 YKNR. TLYDNT TYSLIILGLVLSDRGIYSGV | LL S V L C 63 .ESEDRIYWEREDEQVIQ. FVAGEEDIKPQHSN 49 SILSEILVVFWQDQQKLVLYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVITYYLPYKSPGIN.VDSSS LS L VYWQ V L C 1 VYWQ 91 YKNR. TLYDNTTYSLIIILGLVLSDAGVYCGI | 1 S LLLSBLCAABSAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C 4 DELLAEWWER. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWER. HDKVVLS. VIAGKEK WPE 4 SEEDRIYWFWOD. QOKLVIYEHYLGTEKEDSWAR 37RP-1 71 NESCLYWWOIENPEVSWTYYLPYKSPGIN. VDSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAALOTTDWKLODAGVYCCI 91 YKNR. TLYDNT. TYSLITILGLYLSDRGTYSCV | 1 S LLLSELCAASAETEVGAMVGSN V VLSCIDPHRRHF LL S 49 DELAEVVYWEKEDEQVIQ.EVAGEEDEKPQHSN 63 .ESEDRIYWOKHDKVVLSVIAGKEKLDSVNAK 49 SESEDRIYWODQQKLVIYEHYLGTEKEDSVNAK 17 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ LS L VYWQ 91 YKNRTLYDNTTYSLIILGIVLSDAGVYCGI | 1 S LLLSELCAASAETEVGAMVGSN W VLJSCIDPHRRHF LL S 49 DELAEWWER. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWOR. HDKVVLS. VIAGKEK. WPE 49 SLSELVVFWOD. QOKLVIYEHYLGTEKEDSWNAK 37RP-1 71 NLSGLYVYWOIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDWKLQDAGVYCCI 91 YKNR. TLYDNT. TYSLIILGLVLSDRGTYSCV
 | 1 S LLISELCAASAETEVGAMVGSNŪVLISCIDPHRRHF LL S 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKIK. VWPE 49 SISEIVVFWQD. QQKLVIYEHYLGTEKILDSVNAK 81 SISILVVYWQIENPEVSVITYYLPYKSPGIN. VDSS LS L VYWQ B1 ERGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR. TLYDNT. TYSIIIIGIVLSDRGTYSQV | 1 S LLISELCA ASAETEVGANVGSNIVILISCI DPHRRHF LL S V L C 49 DLLALVIVINEK. EDEQVIQ. FVAGEEDLIKPQHSIN 63 .ESEDRIIVINEK. HDKVVLSVIAGKLIK. VWPE 49 SLSELVIVINOD QQKLVLYEHYLGTEKLDSVNAK 81 SLSLVVINQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ B1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNRTLYDNTTYSLIILGIVLSDRGTYSGV | 1 V LL SLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEVVWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVWLS VIAGKEK. WPE 49 SESEDRIYWOK HDKVWLS VIAGKEK. WPE 49 SESEDRIYWFWQD QQKLWLYEHYLGTEKEDSWNAK 1 NLSGLYWWQIENPEVSWTYYLPYKSPGIN. WDSS LS I VYWQ 1 L VYWQ 91 YKNR TLYDNT TYSLITILGLYLSDAGVYCGI | 1 / VLLISLCAASAETEVGAMVGSNVVLSCIDPHRRHF LL S 49 DELAEVVVWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWYWCK. HDKVVLSVIAGKEK. VWPE 49 SEEDRIYWYWQIENPEVSVIYYEHYLGTEKEDSVNAK 171 NLSGLYVYWQIENPEVSVIYYYLPYKSPGIN. VDSS LS L VYWQ 181 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR. TLYDNTTYSLITIGLVLSDAGVYCQI | 17 VLLISDAVSVETQAYFNGTQYLPCPETKAQNI LL S LLLSLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DLLALWWWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWWKHDKVVLSVIAGKLK.WWPE 49 SLSELVVFWQDQQKLVIYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.VDSS LS L VYWQ LS L VYWQ 181 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLITLGLVLSDAGVYCGI
 |
| 82 VIGR. TSFDRN INWITERLIHINVOIKDINGSKIDCE II | 82 VIGR. TSFDRNNWTLRIHNVOIKDMGSYDCF 11
37rp-1 105 Yknrghlsidsmkogneslylknvtpodtoeftcr 13 | 82 v ijgr. tsedrn n wterihnvolkdmgsvocf il
37rp-1 105 vknrghlsldsmkogneslylknvtpodtoeftgr 13 | 82 v ilgr. tsedrn n wterihnvoikdmgsvoc ^e ii
37rp-1 105 vknrghlsldsmkogneslylknvtpodtoeftgr 13 | 82 vilgr. Tsedrn n witerihnvoikdmesvide 11
37rp-1 105 vinrehlsldsmkogneslylknvipodioeficr 13 | 82 vilgr. Tsed rn nwterihnvo ik dmgsvidg e 11
37rp-1 105 v kn r ghlsl d smkog n eslylknvtpodtoeftcr 13 | 82 VIGR. TSFDRNNWTLRLHNVOIKDMGSYDCF II
37RP-1 105 YKNRGHLSLDSMKOGNFSLYLKNVTPQDTQEFTCR 13 | 82 vilgr. tsed rn nwterihnvoikdmesvilge 11
37rp-1 105 v kn r ghlsl d smkog n eslylkn v tpodtoeftcr 13
 | 82 VIGR. TSFDRNNWTLRLHNVQIKDMGSVUCF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 82 vilgr. tsfd rn nw terlhn v oikdmesvoch 11
37rp-1 105 v kn r ghlsldsmkogneslylkn v tpodtoeftor 13 | 82 vilgr. tsfd rn nwtlr rihn vo ik dmgsvoc f 11
37rp-1 105 v kn r ghlsi d smkog nesl vikn v tpodtoeft c r 13 | 82 vilgr. tsfd rn nw terlhn v oikdmesvoch 11
37rp-1 105 v kn r ghlsldsmkogneslylkn v tpodtoeftor 13 | 82 vilgr. tsfd rn nw terlhn v oikdmesvoch 11
37rp-1 105 v kn r ghlsldsmkogneslylkn v tpodtoeftor 13 | 82 vilgr. tsfd rn nw terlhn v oikdmesvoch 11
37rp-1 105 v kn r ghlsldsmkogneslylkn v tpodtoeftor 13 | 82 vilgr. tsfd rn nw terlhn v oikdmesvoch 11
37rp-1 105 v kn r ghlsldsmkogneslylkn v tpodtoeftor 13 | 82 vilgr. tsfd rn nw terlhn v oikdmesvoch 11
37rp-1 105 v kn r ghlsldsmkogneslylkn v tpodtoeftor 13 | 82 vilgr. tsfd rn nw terlhn v oikdmesvoch 11
37rp-1 105 v kn r ghlsldsmkogneslylkn v tpodtoeftor 13 | 82 vilgr. tsfd rn nwtir rihn vo ik dmgsvoc f 11
37rp-1 105 v kn r ghlsl d smkog nesl vikn v tpodtoeft c r 13
 | 82 vilgr. tsfd rn nwtir rihn vo ik dmgsvoc f 11
37rp-1 105 v kn r ghlsl d smkog nesl vikn v tpodtoeft c r 13 | 82 vilgr. tsfd rn nwtir rihn vo ik dmgsvoc f 11
37rp-1 105 v kn r ghlsl d smkog nesl vikn v tpodtoeft c r 13 | 82 vilgr. tsfd rn nwtir rihn vo ik dmgsvoc f 11
37rp-1 105 v kn r ghlsl d smkog nesl vikn v tpodtoeft c r 13 | 82 vilgr. tsfd rn nwtir rihn vo ik dmgsvoc f 11
37rp-1 105 v kn r ghlsl d smkog nesl vikn v tpodtoeft c r 13 | 82 vilgr. tsfd rn nwtir rihn vo ik dmgsvoc f 11
37rp-1 105 v kn r ghlsl d smkog nesl vikn v tpodtoeft c r 13
 | 82 vilgr. tsfd rn nwtir rihn vo ik dmgsvoc f 11
37rp-1 105 v kn r ghlsl d smkog nesl vikn v tpodtoeft c r 13 | 82 VIGR. TSFDRNNWTLRIHNVOIKDMGSVUCF II | 82 YIGR. TSFDRNNWTIRLHNVOIKDMGSYDGF 11 | 82 YILGR. TSEDRNNWTIRLHNVOIKDMGSYDGF II | 82 VIGR. TSFDRN INWITERLIHINVOIKDINGSKIDCE II
 | 82 VIGR. TSFDRN INWITHINVOIKDINGSVIDCE II | | | 37RP-1 71 N lsglyvywo ienpevs v tyylpykspcin. v dss
Ls l vywo v l l v *
l ergraslpk d ollkgnariothdwklodagvycci
91 y knr.tlydnttystiillglylsbrgtyscv | 37RP-1 71 N lescynywo ienpēvs v tyylpykspain.Vddss
Ls L Vywo V L V *
1
 | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ R FRGRASLPK D QLLKG N AALQITUD V KLQDA G V Y C G I 91 Y KNR.TLY D NTTYSLIILGLVLSDR G T Y S G V | 49 SILSILVV FWQD QQKLVLYEHYLGILEKILDSVNAR
37RP-1 71 NILSGLYVYWQIENPEVSVITYYLPYKSPGIN. VDSS
LS L VYWQ V L V *
LS L VYWQ V L V *
LS L VYWQ L V *
1 YWR TLYDNT TYSLIILGLVLSDAGVYCGI | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V
LS L VYWQ V
L V *
L V *
1 YKNRTLYDNTTYSLIILGLVLSDAGVYCGI
91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ R FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV
 | 63 . ESEDRIYWOK | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SISEIVVFWQD QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ 1 LS L VYWQ 81 FRGRASLPKDQLLKGNAAIQITDVKLQDAGVYCGI 91 YKNR . TLYDNT TYSLIILGLVLSDRGTYSGV | 63 . ESEDRIYWOK HDKVVLSVIAGKLK.VWPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L V S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV | 63 . ESEDRIYWOK HDKVVLS VIAGKLK. VWPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V 1. L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNR . TLYDNT TYSLIILGLVLSDRGTYSGV | 63 ESEDRIYMOK. HDKVVLS VIAGKIK. WWPE 49 SISEILVVFWOD QOKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V 81 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCGI 91 YKNR TLYDNT TYSLIILGLVLSDRGTYSGV | 63 . ESEDRIYWOK HDKVVIS VIAGKIK. WWPE 49 SILSEILVVFWOD QOKIVIYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVIYYLPYKSPGIN. WDSS LS L VYWO 81 FRGRASIPKDOLIKGNAALOTTUSDAGVYCGI 91 YKNR TLYDNT TYSLIILGIVLSDRGIYSGV
 | 49 DILLALVIVIMEK. EDEQVIQ. FVAGEEDIKPOHSN 63 ESEDRIYWQK. HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ 1S L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV | 4 9 DILLAINVYWEKEDEQVIQ.FVAGEEDIRPOHSN 63 .ESEDRIYWOKHDKVVLSVIAGKIK.VWPE 49 SILSEIVVFWQDQQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIENPEVSVIYYLPYKSPGIN.VDSS LS I VYWQ 1 LS I VYWQ 1 L VYWQ 91 YKNRTLYDNTTYSIIILGIVISDRGIYSGV | 49 DELAEVVYWER. EDEQVIQ. EVAGEEDELKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKEK. VWPE 49 SESELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ LS L VYWQ 181 FRGRASLPKDQLLKGNAALQTHDVKLQDAGVYCGI 91 YKNR. TLYDNT. TYSLIILGLVLSDRGIYSGV | 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESELVYFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ LS L VYWQ 19 | 49 DELAEVVYWEKEDEQVIQ.EVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 49 SESELVYFWQDQQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS I VYWQ
LS I VYWQ 19 | LL S 4 9 DELAEVVYWER. EDEQVIQ. EVAGEEDELKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK. WPE 4 9 SESELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTHDVKLQDAGVYCGI 91 YKNR. TLYDNT. TYSLIILGLVLSDRGTYSGV | LL S 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWYWQD QQKLVIYEHYLGTEKEDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ LS L VYWQ 91 YKNR TLYDNT TYSLIILGLVLSDAGVYCGI | LL S 49 DELAEUVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK WPE 49 SESELVYFWQD QQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I. VYWQ LS I. VYWQ 91 YKNR TLYDNT TYSLIILGIVLSDAGVYCGI | LL S V L C 63 .ESEDRIYWEREDEQVIQ. FVAGEEDIKPQHSN 49 SILSEILVVFWQDQQKLVLYEHYLGTEKILDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVITYYLPYKSPGIN. VDSS LS L VYWQ V L C 1.8 I FRGRASLPKDQLLKGNAAIQITUGVKLQDAGVYCGI 91 YKNR .TLYDNTTYSLIILGLVLSDRGTYSGV
 | 1 S LLLSBLCAABSAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C 4 DELLAEVVWEREDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWOKHDKVVLSVIAGKEK, WPE 4 SELSEEVVFWODQQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAAIQITUGWKLODAGVYCCI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV | 1 S LLLSBLCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S 4 9 DLLALVWWEK. EDEQVIQ. FVAGEEDLKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKLK. VWPE 4 9 SLSELVWFWOD QQKLVIYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYWYWQIENPEVSWTYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITUWKLQDAGVYCQI 91 YKNR TLYDNT TYSLIILGLVLSDRGIYSGV | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S | 1 S LLISELCA ASAETEVGAMVGSNŪVILSCIDPHRRHF LL S 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDIKPOHSN 63 ESEDRIYWOK. HDKVVIS VIAGKIK. VMPE 49 SLSEILVVFWOD QOKLVIYEHYLGTEKIDSVNAK 87RP-1 71 NISGIJYVYWOIENPEVSVITYYLPYKSPGIN. VDSS LS L VYWO 81 FRGRASLPKDOLLKGNAALOTTDVKIODAGVYCOI 91 YKNR. TLYDNT TYSLIILGIVLSDRGIYSOV | 1 S LLLSSLCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPOHSN 63 .ESEDRIYWOK. HDKVVLS VIAGKEKLDSVNAK 49 SESEDRIYWOD QOKLVIYEHYLGTEKEDSVNAK 17 NLSGLYVYWOIENPEVSWTYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR. TLYDNT TYSLITLGTVLSDRGTYSGV
 | 1 VLLISELCA ASAETEVGAMVGSN V VLSCIDPHRRHF LL S 49 DELAEVVWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEL VWPE 49 SESEDRIYWOK. HDKVVLS. VIAGKELDSVNAK 49 SESEDRIYWYWOIENPEVSVIYYLLYSEGIN. VDSS LS L VYWQ 1 L VYWQ 91 YKNR. TLYDNT. TYSELIILGIVLSDAGVYCOI | 1 / VLLISLCAASAETEVGAMVGSNWWLSCEDERRANGEL 1 L. S 49 DELAENWER. EDEOVIO. FVAGEEDERPOHSN 63 . ESEDRIYWFWOR HDKVVIS VIAGKELDSWNAK 49 SESENYFWOR HDKVVIS VIAGKELDSWNAK 71 NESGLYWFWOIENPEVSWTYYLFYKSPGIN. WDSS LS L VYWO 81 FRGRASLPKDOLLKGNAALOITDWKLODAGVYCOI 91 YKNR TLYDNT TYSLIILGIVLSDRGTYSGV | 17 VLLISDAVSVETQAYFNGTQYLPCPETKAQNI LL S LLLSELCAASAETEVGAMVGSNVVLSCIDPHRRHF LL S 49 DELAEVVEWEREDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQRHDKVVLSVIAGKEKLDSVNAK 49 SESEDRIYWQRHDKVVLSVIAGKEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ 1 LS L VYWQ 91 YKNRTLYDNTTYSLIILGLVLSDAGVYCQI 91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV |
| 82 VIGR. TSFDRN NWTLRIHNVOIKDMGSYDCF 11 | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 82 YEGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 82 YEGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
 | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 82 YLGR. TSFDRN NWTLRLHNVQIKDMGSYDGF 11
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 | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 | | | 37RP-1 71 N lsglyvywo ienpevs v tyylpykspgin. v dss
Ls L vywo v
U * L V *
81 Frgraslpkdollkgnaaloihdvklodagvycgi
91 Yknr. tlydnttysliilglylsbrgtysgv | 37RP-1 71 N LSGLYVYWQ IENPĒVS V TYYLPYKSPGIN.VDSS
LS L VYWQ V
L S L VYWQ V
R FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI
91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV
 | 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGTYSGV | 49 SILSILVV FWQDQQKLVLYEHYLGILEKILDSVNAR
37RP-1 71 NILSGLYVYWQIENPĒVSVITYYLPYKSPGIN.VDSS
LS L VYWQ V
LS L VYWQ V
L V *
L | 49 SILSELVVFWQDQQKLVLYEHYLGTEKIDSVNAK
37RP-1 71 NILSGLYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V
L V *
L V *
L V *
L VYWQ
V 1 VYWQ C V
S1 FRGRASLPKDQLLKGNAAIQITDVKLQDAGVYCQI
91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV | 49 SISEILVVFWQDQQKIVIYEHYLGTEKIDSVNAK
37RP-1 71 NISGIJYVYWQIENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V L V
1S L VYWQ V L V
1S L VYWQ L V
81 FRGRASLPKDQLLKGNAAIQITDVKLQDAGVYCQI
91 YKNRTLYDNTTYSIIILGLVLSDRGTYSGV | 63 . ESEDRIYWOK | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SILSEILVVFWQD QQKLVLYEHYLGTEKI DSVNAK 37rp-1 71 nilsgilyvywqienpevsviyyldykspcin. Vdss Ls L vywq v 18
 | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SISEIVVFWOD QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIJYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWO V LS I VYWO 81 FRGRASIPKDOLLKGNAAIOTTDVKLODAGVYCCI 91 YKNR TLYDNT TYSLITTGLVLSDRGIYSCV | 63 .ESEDRIYWOKHDKVVLSVIAGKIK.VWPE 49 SILSEILVVFWODQOKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVIYYLPYKSPGIN.VDSS LS L VYWQ V S1 FRGRASLPKDOLLKGNAAIOITUDVKLODAGVYCGI 91 YKNRTLYDNTTYSIIILGLVLSDRGIYSGV | 63 ESEDRIYMOK. HOKVVLS VIAGKIK. WWPE 49 SISEIVVFWOD. OOKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO 81 FRGRASLPKOLLKGNAAIOTTDVKLODAGVYCOI 91 YKNR. TLYDNT TYSIIILGLVLSDRGIYSGV | 63 .ESEDRIYWOK HDKVVIS VIAGKIK. VWPE 49 SILSEILVVFWOD QOKIVIYEHYLGTEKILDSVNAK 37RP-1 71 NISGILYVYWO V LS L VYWO V LS L VYWO V 81 FRGRASLPKDOLLKGNAAIOTTDVKLODAGVYCCI 91 YKNRTLYDNTTYSIIIIGLVLSDRGIYSCV | 49 DILLALVIVIMEN. EDEQVIQ. FVAGEEDIKPOHSN 63 . ESEDRIYWQK HDKVVIS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKIVIYEHYLGTEKIDSVNAK 87RP-1 71 NILSGILVVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ V LS I VYWQ 91 YKNR TLYDNT TYSIIILGIVISDRGIYSGV
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13
 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR 13
 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR 13 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR 13
 | 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR 13 | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11 | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11 | 82 YLGR. TSFDRNNWTLRLHNVOIKDMGSYDGF 11 | 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
 | 82 YLGR. TSFDRNNWTLRLHNVOIKDMGSYDGF 11 | | | 37RP-1 71 N lescynvyno ienpevs v tyylpykspcin.Vddss
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37RP-1 71 NILSGLYVYWQIENPĒVSVITYYLPYKSPGIN.VDSS
LS L VYWQ V
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1 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCQI
 | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS
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 | 63 ESEDRIYMOK. HOKVVLS VIAGKLK. WPE 49 SLSELVYFWOD. QOKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO V | 63 . ESEDRIYWOK HDKVVIS VIAGKIK. VWPE 49 SILSEILVVFWOD QOKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO V 181 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCCI | 49 DILLALVIVIMEN. EDEQVIQ. FVAGEEDIR POHSN 63 . ESEDRIYWQK HDKVVIS VIAGKIK. VWPE 49 SISEILVVFWQD QQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIJVVYWQIENPĒVSVIYYIPYKSPGIN. VDSS LS I VYWQ 1 VYWQ 1 VYWQ 1 L VYWQ | 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK WPE 49 SESELVYFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 1. V * 1. VYWQ 81 FRGRASLPKDQLLKGNAALQITTDVKLQDAGVYCQI | 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDELKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKEK. VWPE 49 SESELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ 1 LS I VYWQ 1 LS I VYWQ 1 LS I VYWQ 1 LS I LYWQ 1 LS I LS | 1 49 DELAEVEVER. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWGK HDKVVLS VIAGKEK WPE 49 SESELVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. WDSS LS L VYWQ LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITIDVKLQDAGVYCQI | 49 DILAIVVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ 1. VYWQ 81 FRGRASLPKDQLLKGNAAIQITTDVKLQDAGVYCQI | LL S 4 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK.
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 | 49 DELLALVEVWER. EDEQVIQ. FVAGEEDER POHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK. VWPE 49 SESELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V 18 ERGRASLPKDQLLKGNAALQTFDVKLQDAGVYCGI | 49 DILAIVVYWEKEDEQVIQ.FVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SILSEILVVFWQDQQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS I VYWQ 1 | 49 DELAEVVYWER. EDEQVIQ. EVAGEEDELKPQHSN 63 ESEDRIYWQK. HDKVVLS VIAGKEK. VWPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS I VYWQ 1 VYWQ 1 V * 81 FRGRASLPKDQLLKGNAALQTFDVKLQDAGVYCGI | 49 DELLAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWQK. HDKVVLS VIAGKEK. VWPE 49 SESEEVVFWQD QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGEVYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V 18 L L VYWQ 18 ERGRASLPKDQLLKGNAALQTFDVKLQDAGVYCGI | 49 DILAINVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKILVIYEHYLGTEKIDSVNAK 37RP-1 71
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 | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C 49 DILAIWWYWER. EDEQVIQ. FVAGEEDIRPQHSN 63 ESEDRIYWOR. HDKVVLS. VIAGKIK. WPE 49 SILSEILWFWOD. QOKLVIYEHYLGTEKIDSWNAK 37RP-1 71 NILSGILYWYWOIENPEVSWIYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAAIQTTDWKLQDAGVYCGI | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S V L C 4 DELLAEVEWER. EDEQVIQ. FVAGEEDEKPOHSN 63 . ESEDRIYWOR HDKVVLS VIAGKER. WPE 49 SESEDRIYWFWOD QQKLVIYEHYLGTEKEDSWNAK 37RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAATQTTDVKLQDAGVYCQI | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S 49 DLLALWWWEKEDEOVIO.FVAGEEDLKPOHSN 63 .ESEDRIYWOKHDKWUSVIAGKLK.WWPE 49 SLSELWWFWODQOKLWIYEHYLGTEKLDSWNAK 87RP-1 71 NLSGLYWYWOIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ 81 FRGRASLPKDOLLKGNAALQTTDWKLODAGWYCGI | 1 S LLLSELCAASAETEVGAMVGSNŪVLSCIDPHRRHF 1 L S | 1 S LLLSELCAPASAETEVGAMVGSN VVL SCIDPHRRHF LL S 49 DELAEVVWER. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWYK. HDKVVLS. VIAGKEK. WPE 49 SESEDRIYWYWOD. QOKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 81 ERGRASLPKDQLLKGNAAEQTTDVKLQDAGVYCQI
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1 / VLLISGLCAASAETEVGAMVGSNWWLSCIDPHRRHF
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82 Ylgr. Tsfdrnwtlrhnvqikdmgsydgf 11
37rp-1 105 Yknrghlsldsmkqgnfslylknvtpqdtqeftgr 13 | 91 Yknr. TlydntTysliilglylsdrgfysgy 12
82 Ylgr. Tsedrnnwtlrhnvoikdmgsydge 11
37rp-1 105 Yknrghlsldsmkogneslylknvtpodtoeftgr 13 | 91 YKNR. TLYDNTTYSLIIILGLVISDRGTYSGV 12
82 Ylgr. Tsfdrnnwtlrhnvoikdmgsydgf 11
37rp-1 105 Yknrghlsldsmkognfslylknvtfodtofftr 13 | 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 Yknr. TlydntTysliilglylsdrgfysgy 12
82 Ylgr. Tsfdrnnwtlrihnvoikdmgsydge 11
37rp-1 105 Yknrghlsldsmkogneslylknvtfodtoeftgr 13
 | 91 Yknr. TlydntTysliiiglylsdrgfysgy 12
82 Ylgr. Tsfdrnnwtirhhvoikdmgsydge 11
37rp-1 105 Yknrghlsldsmkogneslylknvtfodtoeftgr 13 | 91 Yknr. tlydnt tysliiiglylsdrgfysgy 12
82 Ylgr. tsfdrnnwtirihnvoikdmgsydge 11
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82 Ylgr. Tsfdrnnwtirihnvoikdmgsydge 11
37rp-1 105 Yknrghlsldsmkogneslylknvtfodtoeftgr 13 | 91 Yknr. tlydnt tysliiiglylsdrgfysgy 12
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82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 | 91 YKNR. TLYDNTTYSLIIILGLVLSDRGTYSCV 12
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 | 49 SILSILVVFWQDQQKLVLYEHYLGTEKHDSVNAK
37RP-1 71 NILSGLYVYWQIENPĒVSVTYYLPYKSPGIN.VDSS
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 | 63 . ESEDRIYWOK HDKVVLS VIAGKLK. VWPE
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| 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNT TYSLIILGLVLSDRGTYSCV 12
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGFYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGFYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGFYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGFYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGFYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGFYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 | 91 YKNR TLYDNT TYSLIHLGLVILSDRGTYSCV 1 | 91 WKNR TIVDNT TYSTITITICIVITISDEGINSOV 1 | 37RP-1 71 N lsglyvywo ienpevs v tyylpykspcin.Vddss
ls l vywo
v lergraslek d ollkg n aalotro n klodagvycqi | 37RP-1 71 N lscyvywo ienpēvs v īyyylykspain.Vddss
Ls L Vywo
V Ls L Vywo
L 81 Frgraslpk d ollkanaalothdviklodagvieci
 | 37RP-1 71 N LSGL Y VYWQ IENPĒVS V TYYLPYKSPGIN.VDSS
LS L VYWQ V
LS L VYWQ V
R1 FRGRASLPK D QLLKG N AĀLQIJID V KLQDĀGV Y CQI | 49 S LSEL VVFWQDQQKLVLYEHYLGIJEKLDSVNAK
37RP-1 71 N LSGL YVYWQIENPĒVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V
LS L VYWQ V
1 FRGRASLPK D QLLKG N AĀLQIJTDVKLQDĀGVYCQI | 49 S lesel vvewodookiviyehylgtekidsvnak
37rp-1 71 n les giyvewoienpevsviyylpykspgin.vdss
1.s 1 vywo v
1.s 1 vywo l | 49 SISEITVVFWQDQQKIVIYEHYLGTEKIDSVNAK
37RP-1 71 NISGIJYVYWQIENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V
LS L VYWQ L
81 FRGRASLPKDQLLKGNAAIQITDVVKLQDAGVYCQI
 | 63 . ESEDRIYWOKHUKVVLSVIAGKIK.VWPE
49 SISEIVVFWODQQKIVIYEHYLGTEKIDSVNAK
37rp-1 71 nisgijvvywoienpevsviyyylpykspgin.Vdss
1. v *
1. vywo v lengraslek d ollkgnaalotruvkiodagvycqi | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SISEIVVFWQD QQKIVIYEHYLGTEKIDSVNAK 37rp-1 71 nisgiyvywqienpevsviyyylyylpykspcin. Vdss L. V. V R. L. VYWQ R. L. VYWQ R. REGRASLPKDQLLKGNAAIQITDVVKLODAGVYCQI | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SISEIVVFWOD QOKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIJYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO V LS L VYWO LS 81 FRGRASLPKDOLLKGNAAIOTHDVKLODAGVYCGI | 63 ESEDRIYWOKHDKVVLSVIAGKIK.VWPE 49 SISEIVVFWODQOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIJYVYWOIENPEVSVIYYLPYKSPGIN.VDSS LS L VYWQ LS L VYWQ 81 FRGRASLPKDOLLKGNAAIOTTDVKLODAGVYCCI | 63 ESEDRIYMOKHDKVVLSVIAGKLK.VWPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ N L V 181 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI | 63 . ESEDRIYWOK HDKVVIS VIAGKIK. VWPE 49 SILSEILVVFWOD QOKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGILYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO 81 FRGRASLPKDOLLKGNAAIOTTDVKLODAGVYCQI
 | 49 DELLALVEVEK. EDEQVIQ. FVAGEEDEKPOHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK. VWPE 49 SLSELVEWOD QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ | 49 DELAEVVYWEKEDEQVIQ.EVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.WPE 49 SESELVYEWQDQQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGEYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKEQDAGVYCQI | 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDELKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKEK. WPE 49 SESELVVFWQD. QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 1 LS L VYWQ | 1 49 DELAEVEVER. EDEQVIQ. FVAGEEDERPQHSN 63 . ESEDRIYWER HDKVVLS VIAGKEK WPE 49 SESEDRIYWEWDD QQKLVLYEHYLGTEKEDSVNAK S7RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. WDSS LS L VYWQ V LS LS L VYWQ V LS LS L VYWQ V LS | 49 DILAIVVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ | LL S 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWYWDD QQKLVIYEHYLGTTEKEDSVNAK 37RP-1 71
NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ 18 I FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI | LL S V L C 49 DELAEVEVER. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWGK HDKVVLS VIAGKEK VWPE 49 SESEDRIYWFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L C LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTFDVKLQDAGVYCQI | LL S 49 DELAEVVYWEKEDEQVIQ.EVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.WPE 49 SESELVVFWQDQQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ 1. | LL S V L C 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWYWQD QQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NESGEYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 1 L | 1 36 LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C V L C 49 DELAEVWWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWFWQRHDKVVLSVIAGKEK.WPE 49 SESEDRIYWFWQDQQKLVLYEHYLGTEKEDSWNAK 37RP-1 71 NLSGLYWWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L 1 V * 81 FRGRASLPKDQLLKGNAALQTFDWKLQDAGVYCGI | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C 49 DELAEVWER. EDEQVIQ. EVAGEEDEKPOHSN 63 ESEDRIYWER. HDKVVLS. VIAGKEK. WPE 49 SESELVVFWQD. QQKLVLYEHYLGTEKEDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTHDWKLQDAGVYCQI
 | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S V L C 4 DILALVWWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SILSEILVWFWOD QQKLVLYEHYLGTEKIDSWNAK 37RP-1 71 NISGILYWWOIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWO 81 FRGRASLPKDQLLKGNAAIQTTDWKLQDAGVYCQI | 1 S LLLSELCAASAETEVGAMVGSNŪVLSCIDPHRRHF 1 L S V L C 4 9 DLLALVVYWEK. EDEQVIQ. FVAGEEDLKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKLK. VWPE 4 9 SLSELVVFWQD QQKLVIYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S V L C 4 9 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKEK. WPE 4 9 SEEDRIYWYWQD. QQKLVIYEHYLGTEKEDSWNAK 37RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAAEQTIDWKLQDAGVYCQI | 1 V LLISELCAASAETEVGAMVGSN V VLSCIDPHRRHF 1L S 49 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWYWCKHDKVVLSVIAGKEKLOWPE 49 SESEDRIYWYWQDQQKLVLYEHYLGTEKEDSWNAK 171 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.WDSS LS L VYWQ 1 | 1 / VLLISDAVSVETCAYFNGTCYLHEGEFTRACNI
27RP-1 36 LLLSLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DLLALVWWEKEDEOVIO.FVAGEEDIKPOHSN 63 .ESEDRIYWOKHDKVWLSVIAGKIK.WWPE 49 SLSEINVFWQDQQKLWLYEHYLGTEKIDSWNAK 27RP-1 71 NLSGLYWWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ 1 V * 1 V YWQ 81 FRGRASIPKDQLLKGNAAIOTHDWKLQDAGVYCQI
 | 17 VLLISDAVSVETQAYFNGTQYIPCPETKAQNI LL S LL S 49 DILAIVVYWEKEDEQVIQ.FVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SLSEIVVFWQDQQKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NLSGIYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ 1 |
| 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 Y KN R . TLY D NTTYS L IILGLVLS D R G T Y S C V 12
82 Y LG R . TSF D RN N WTLRLHN V QIK D M G S Y D G F 11
37RP-1 105 Y KN R GHLSL D SMKQG N FS L YLKN V TPQ D TQEFT G R 13 | 91 YKNR. TLYDNT. TYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDCF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
 | 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 | 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11
 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQLKDMGSYDCF 11 | 91 YKNR TIYDNT TYSLIILGIVISDRGIYSCV 1 | 91 VKNR TIVDNT TYSTITITICI WISDRGTYSOV 1 | 37RP-1 71 N lsglyvywo ienpevs v tyylpykspcin.Vdss
Ls L vywo v lergrasi.Pkbolikgnaalothdvkiodagvycoi | 37RP-1 71 N LSGL YVYWQIENPĒVSVTYYLPYKSPGLN.VDDSS
LS L VYWQ V
R1 FRGRASI, PKDOI, I, KGNAALOTH DVKLODAGVYCGI
 | 37RP-1 71 NILSGILYVYWQIENPĒVSVITYYLPYKSPGIN.VDSSS
LS L VYWQ V L V * L V * L VYWQ | 49 SILSELLVVFWQDQQKLVLYLGIJEKHDSVNAR
37RP-1 71 NILSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V
LS L VYWQ V
R FRGRASI.PKDOII.KGNAAIOTHDVKLODAGVYCGI | 49 SILSEILVVFWQDQQKLVIYEHYLGTEKIDSVNAK
37RP-1 71 NILSGILYVYWQIENPEVSVIYYLPYKSPGIN.VDSS
LS L VYWQ V
LS L VYWQ V
R1 FRGRASI.PKDOLLKGNAAIOTHDVKLODAGVYCGI | 37RP-1 71 NLSGLYVYWQDQQKLVLYEHYLGTEKLDSVNAK 19 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPĒVSVTYYLPYKSPGIN.VDSS LS L VYWQ RRGRASI,PKDOLIKGNARIOTHDVKLODAGVYCGI
 | 63 . ESEDRIYMOKHUKVVLSVIAGKIK.VWPE
49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ V L L V * | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SISEIVVFWOD QOKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ V R FRGRASI, PKDOI, I, KGNAAIOTH DVKLODAGVYCOI | 63 . ESEDRIYWOKHDKVVLSVIAGKLK.VWPE 49 SLSELVVFWODOOKLVIYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWOIENPEVSVIYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ 81 FRGRASI.PKDOII.KGNAALOTHDVKLODAGVYCGI | 63 . ESEDRIYWOK HDKVVLS VIAGKLK. VWPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ N LS L VYWQ RRGRASI, PKDOI, I, KGNAALOTH DVKLODAGVYCGI | 63 ESEDRIYWEK. HDKVVLS. VIAGKEK. WPE 49 SESELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ R FRGRASI, PKDOLI, KGNAALOTH DVKE, ODAGVYCQI | 43 JHLAHVITWOK. HOKVVIS. VIAGKIK. VWPE 49 SILSEILVVFWOD. QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ RRGRASI, PKDOI, I, KGNAAIOTH DVKLODAGVYCGI
 | 49 DELLALVEVENER. EDEQVIQ. FVAGEEDELKPOHSN 63 ESEDRIYWOK. HDKVVLS VIAGKEK. VWPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ V 81 FRGRASI. PKDOII. KGNAALOTH DVKEODAGVYCGI | 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVIS. VIAGKIK. VWPE 49 SILSEIVVFWQD. QQKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ 1 | 1 49 DELAEVEVENER. EDEQVIQ. EVAGEEDELKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS I. VYWQ V LS L VYWQ V LS L VYWQ | 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVIS. VIAGKEK. VWPE 49 SESELVVFWQD. QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ 81 FRGRASI. PKDOII. KGNAALOTH DVKE, ODAGVYCQI | 49 DILALVIVIMEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQK HDKVVIS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKIVIYEHYLGTEKIDSVNAK 87RP-1 71
NILSGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS I VYWQ V L V | LL S 4 9 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 4 9 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS I VYWQ 1 | LL S V L C 49 DILAIVVYWER. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKIK. VWPE 49 SILSEILVVFWQD. QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ N L 1 VYWQ 1 VYWQ 1 VYWQ 1 VYWQ | 1L S 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWFWQD QQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I. VYWQ 1 | 1.1. S V. L. C 63. ESEDRIYWER EDEQVIQ. FVAGEEDIKPQHSN 49. SLSEILVVFWQD QQKLVLYEHYLGTEKILDSVNAK 87RP-1 71. NILSGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSSS LS I. VYWQ 1. VYWQ 81. FRGRASI, PKDOLL, KGNAAIOTH DVKLODAGVYCGI
 | 1 S LLLSELCAASAETEVGAMVGSN W VLSCIDPHRRHF 1 L S V L C 4 9 DLLALWYWER. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIYWOR. HDKVVLS. VIAGKIK. WPE 4 9 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. WDSS LS L VYWQ 8 1 FRGRASI. PKDOII. KGNAALOTH DWKLODAGVYCGI | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C 49 DLLALWVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.WWPE 49 SLSELVVFWQDQQKLVIYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ LS L VYWQ R1 FRGRASI.PKDOII.KGNAALOTHDWKLODAGVYCGI | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S V L C 4 9 DLLALWWWEK. EDEOVIO.FVAGEEDLKPOHSN 63 .ESEDRIYWOK. HDKWUS VIAGKIK. WWPE 4 9 SLSELWWFWOD QOKLWIYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYWYWOIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 1 LS L VYWQ 81 FRGRASI, PKDOI, I. KGNAALOTHDWKLODAGWYCGI | 1 S LLLSELCAASAETEVGAMVGSNÜVLSCIDPHRRHF 1 L S V L C 4 9 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK. VWPE 4 9 SESEDRIYWFWQD QQKLVIYEHYLGTEKEDSVNAK 87 RP-1 71 NESCEVYWQIENPEVSVIYYLPYKSPGIN. VDSSS LS L VYWQ 1 LS L VYWQ 1 L VYWQ 1 L VYWQ | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S 49 DELAEVWER. EDEQVIQ. EVAGEEDELKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK, WPE 49 SLSELVVFWQD. QQKLVLYEHYLGTEKEDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSSS LS L VYWQ 81 FRGRASI, PKDOI, I. KGNAALOTH DWKLODAGVYCGI
 | 1 V L L SELCA ASA ET EVGANV GSNIVILIS CIDPHRRHF LL S 49 DILAINVYWER. EDEQVIQ. FVAGE EDILK POHSIN 63 ESE DRIYWOR. HDKVVLS. VIAGKIK. WPE 49 SILSEIL VYWOD. OOKLVIYEHYLGTEKIDS VNAK 87 RP-1 71 NISGINVYWOIENPEVSVIYYL PYKSPGIN. WDSS LS L VYWO 81 FRGRASI, PKDOI, I.KGNIAAIOTH DVKILODAGVYCOI | 1 / VLLISLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S LL S 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SILSEILVVFWOD QOKINIYEHYLGTEKIDSVNAK 171 NILSGILYVYWOIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASI, PKDOI, I. KGNAAIOTHDWKI. ODAGVYCGI | 17 VLLISDAVSVETQAYFNGTQYLPCPETKAQNI LL S LL S 49 DELAEVSWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWYWCKHDKVVLSVIAGKEK.VWPE 49 SLSEEVVFWQDQQKLVIYEHYLGITEKEDSVNAK 171 NLSGLYVYWQIENPEVSWIYYLPYKSPGIN.VDSS LS L VYWQ LS L VYWQ 81 FRGRASI.PKDOLLKGNAALOTHDWKLODAGVYCGI |
| 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 | 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSCV 12
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
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LS L VYWQ V L
 | 49 SILSEILVVFWQDQQKLVLYEHYLGTEKHDSVNAR
37RP-1 71 NILSGILYVYWQIENPEVSVTYYLPYKSPGIN.VDSS
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L V * | 37RP-1 71 NLSGLYVYWQDQQKLVLYEHYLGTEKLDSVNAK B7RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ O LEGERAL LEGE | 63 . ESEDRIYWOKHUKVVLSVIAGKIK.VWPE
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 | 63 . ESEDRIYWOK HDKVVLS VIAGKLK. VWPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 1. V * 1. V * 1. L VYWQ 2. L VYWQ 4. L VYWQ 5. L L VYWQ 5. L L VYWQ 6. L L | 63 ESEDRIYMOK. HOKVVIS VIAGKIK. WPE 49 SILSEILVVFWOD. QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWOIENPEVSVIYYYLPYKSPGIN. VDSS LS L VYWO 21 FPCPASI PKPOLIKGNATOTH NYKITOTA PKY | 43 JHLAHAVITWER. HOKVVIS. VIAGKIK. VWPE 63 ESEDRIYWOK. HOKVVIS. VIAGKIK. VWPE 49 SILSEILVVFWOD. QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NILSGIJYVYWOIENPEVSVIYYLPYKSPGIN. VDSSS LS L VYWQ 1 | 49 DILLALVIVIMEK. EDEQVIQ. FVAGEEDILKPQHSN 63 ESEDRIYWQK. HDKVVLSVIAGKIK. VWPE 49 SILSEILVVFWQDQQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ O L V | 1 49 DILLALIVIVIMEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYMQK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKLVLYEHYLGTEKIDSVNAK B7RP-1 71 NILSGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSSS LS L VYWQ LS L VYWQ 1 | 49 DELAEVVYWER.
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 | LL S 49 DELLAEUVYWEK. EDEQVIQ. FVAGEEDELKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK WPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ 1. | LL S V L C 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYLPYKSPGIN. VDSS LS L VYWQ V L C LS L VYWQ V L C L V * | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C 4 9 DILLAILWWWEK. EDEQVIQ. FVAGEEDILKPQHSN 63 ESEDRIYWOK. HDKVVLS VIAGKIK. WPE 4 9 SILSEILWVFWQD QQKIVIYEHYLGTEKIDSWNAK 37RP-1 71 NILSGILYWWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 1 LS L VYWQ | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S V L C 4 9 DLLALWWER. EDEQVIQ. FVAGEEDLKPQHSN 63 ESEDRIYWOR. HDKWULS. VIAGKIK. WPE 4 9 SLSEILWVFWQD. QQKLVLYEHYLGTEKIDSWNAK 17 1 NLSGLYWYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 18 L VYWQ 19 LEGERAL LYWQ | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S V L C 4 9 DLLALWWWEK. EDEOVIO. FVAGEEDLKPOHSN 63 . ESEDRIYWOK HDKWWLS VIAGKLK. WWPE 49 SLSELWWFWOD QOKLWLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYWWOIENPEWSWIYYLPYKSPGIN. WDSS LS L VYWO 81 FECENSI PKENTENFEWSWIYYLPYKSPGIN. WDSSS LS L VYWO 1 LS L VY | 1 S LLLSELCAASAETEVGAMVGSNÜVLSCIDPHRRHF 1 L S V L C 4 9 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK. WPE 4 9 SESEDRIYWOD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVIYYEHYLGTEKEDSVNAK LS L VYWQ 8 1 EPCENSI PKROLI KONNATOTHINNKELONARVOGI | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S 49 DELAEVWWER. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWOR. HDKVVLS.
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| 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 | 91 YKNR. TLYDNTTYSLITILGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQTKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 37RP-1 105 YKNRGHLSLDSMKOGNESLYLKINVTPODTOEFTCR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGFYSGV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGFYSGV 12
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82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11 | 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12
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 | 49 SILSELLVVFWQDQQKLVLYEHYLGIJEKHDSVNAK
37RP-1 71 NILSGLYVYWQIENPĒVSVITYYLPYKSPGIN.VDSS
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1. v * | 63 . ESEDRIYWOKHDKVVLSVIAGKIK.VWPE 49 SISEIVVFWODOOKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE 49 SISEIVVFWOD QOKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWO | 63 ESEDRIYMOK. HOKVVLS VIAGKLK. WPE 49 SLSELVVFWOD QOKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ | 63 . ESEDRIYWOK . HDKVVIS VIAGKIK. WPE 49 SILSEILVVFWOD QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIJYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ
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NISGILYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I. VYWQ | LL S 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS I VYWQ 1 | LL S V L C 49 DELAEVEVER. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK. WPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ LS L VYWQ V L V * | LL S 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK WPE 49 SESELVYFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ LS L VYWQ V L V * | LL S V L C 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ LS L VYWQ V L V *
 | 1 36 LLLSELCAASAETEVGAMVGSN W VLSICIDPHRRHF LL S V L C V L C 49 DLLALWWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWOKHDKVVLSVIAGKLK.WPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L L | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C 49 DLLALWWWEKEDEQVIQ.EVAGEEDLKPQHSN 63 .ESEDRIYWOKHDKVVLSVIAGKLK.WPE 49 SLSELVVFWODQQKLVLYEHYLGTEKLDSWNAK 171 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L L V * | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DILAIWWWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKIK. WPE 49 SILSEILVVFWOD QOKLVIYEHYLGTEKIDSWNAK 171 NILSGILVVYWOIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWO | 1 S LLLSELCAASAETEVGAMVGSNŪVLSCIDPHRRHF 1 L S V L C 4 9 DLLALVVYWEK. EDEQVIQ. FVAGEEDLKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKLK. VWPE 4 9 SLSELVVFWQD QQKLVIYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S V L C 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDELKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKEK WPE 49 SESEDRIYWFWOD. QQKLVIYEHYLGTEKEDSWNAK 171 NESGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 1
 | 1 V LLISELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEVWER. EDEQVIQ. EVAGEEDERPOHSN 63 . ESEDRIYWER. HDKVVLS VIAGKENWPE 49 SESELVVEWOD QOKLVIYEHYLGTEKEDSWNAK 171 NESGLYWWOIENPEVSWTYYLPYKSPGIN. WDSS LS I. VYWQ | 1 / VLLISLCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S LL S V L C 4 9 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQKHDKVVLSVIAGKIK.WPE 49 SISEIVVFWQDQQKLVIYEHYLGTEKIDSWNAK 17 1 NISGIYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L | 17 VLLISBLOAMSVETQAYFNGTQYLPCPETKAQNI LL S LLLSBLOAASAETEVGAMVGSNWVLSCIDPHRRHF LL S 49 DLLALWVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.WWPE 49 SLSELVVFWQDQQKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ LS L VYWQ V L C 49 SLSELVVFWQIENPEVSWTYYLPYKSPGIN.WDSS |
| 1 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 11
91 Yknr. tlydnttysliilglylsdrgtysgy 12
82 Ylgr. tsfdrnnwtlrihnvoikdmgsydge 11 | 1 81 FRGRASLPKDOLLKGNAALOITDVKLODAGVYCGI 11 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV 12 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 1 81 FRGRASLPKDOLLKGNAALOITDVKLODAGVYCGI 11 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV 12 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKOGNFSLYLKNVTPQDTQEFTGR 13 | 1 81 FRGRASLPKDOLLKGNAALOITDVKLODAGVYCGI 11
91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV 12
82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 1 81 FRGRASLPKDOLLKGNAALOITDVKLODAGVYCGI 11 91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 1 81 FRGRASLPKDOLLKGNAALOIMDVKLODAGVYCGI 11 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV 12 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 1 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 11 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV 12 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | 1 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 11 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV 12 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
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91 Yknr. TlydntTysliilglvlsdrgfysgv 12
82 Ylgr. Tsfdrnnwtlrihnvoikdmgsydgf 11
37rp-1 105 Yknrghlsldsmkognfslylknvtpodtofftgr 13 | 1 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 11
91 Yknr. tlydnttysliilglylsdrgfysgy 12
82 Ylgr. tsfdrnnwtlrihnvoikdmgsydge 11
37rp-1 105 Yknrghlsldsmkognfslylknvtpodtoeftgr 13 | 1 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 11
91 Yknr. TlydntTysliilglvlsdrgfysgv 12
82 Ylgr. Tsfdrnnwtlrihnvoikdmgsydgf 11
37rp-1 105 Yknrghlsldsmkognfslylknvtpodtofftgr 13 | 1 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 11
91 Yknr. TlydntTysliilglvlsdrgfysgv 12
82 Ylgr. Tsfdrnnwtlrihnvoikdmgsydgf 11
37rp-1 105 Yknrghlsldsmkognfslylknvtpodtofftgr 13 | 1 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 11
91 Yknr. TlydntTysliilglvlsdrgfysgv 12
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37rp-1 105 Yknrghlsldsmkognfslylknvtpodtofftgr 13 | 1 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 11
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91 Yknr. tlydnttysliilglylsdrgfysgy 12
82 Ylgr. tsedrnnwtlrihnvoikdmgsydge 11
37rp-1 105 Yknrghlsldsmkogneslylknvtpodtoeftgr 13
 | 1 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 11
91 Yknr. tlydnttysliilglylsdrgfysgy 12
82 Ylgr. tsedrnnwtlrihnvoikdmgsydge 11
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91 Yknr. tlydnttysliilglylsdrgfysgy 12
82 Ylgr. tsedrnnwtlrihnvoikdmgsydge 11
37rp-1 105 Yknrghlsldsmkogneslylknvtpodtoeftgr 13 | 1 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 11
91 Yknr. tlydnttysliilglylsdrgfysgy 12
82 Ylgr. tsedrnnwtlrihnvoikdmgsydge 11
37rp-1 105 Yknrghlsldsmkogneslylknvtpodtoeftgr 13 | 1 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 11
91 Yknr. tlydnttysliilglylsdrgfysgy 12
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82 Ylgr. tsedrnnwtlrihnvoikdmgsydge 11
37rp-1 105 Yknrghlsldsmkogneslylknvtpodtoeftgr 13
 | 1 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 11
91 Yknr. tlydnttysliilglylsdrgfysgy 12
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82 Ylgr. tsfdrnnwtlrihnvoikdmgsydge 11
 | 1 81 FRGRASLPKDOLLKGNAALOITDVKLODAGVYCGI 11
91 Yknr. tlydnttysliilglylsdrgfysgy 12
82 Ylgr. tsfdrnnwtlrihnvolkdmgsydgf 11 | 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 1
91 Yknr. tlydnt tysliilglylsbrgfysgv 1 | 81 FRGRASLPKDOLLKGNAALOIITDVKLODAGVYCGI 1
91 vknr tlydnt tystitiglyngdrgfysgy 1 | 37RP-1 71 N lschyvynq ienpevs v tyylpykspcin.Vddss
ls l vywq | 37RP-1 71 N lschyvyno ienpēvs v ītylpykspgin.Vddss
ls l vywo V
 | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGIN. V DSS
LS L VYWQ V | 49 S lskil voltwerwer
37rp-1 71 n lsglyvywo ienpevs v tyylpykspgin.Vdss
ls l vywo | 49 S leselvyfwo dookl v lyehylgtekids v nak
37rp-1 71 n lsgi y vywo ienpevs v tyylpykspgin. v dss
1 v * | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ
 | 63 .ESEDRIYWOKHUKVVLSVIAGKIK.VWPE
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37rp-1 71 nisgiyvywoienpevsviyyylpykspgin.Vdss
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 | 49 DELLAEVVYWER. EDEQVIQ. FVAGEEDER POHSN 63 ESEDRIYWQK. HDKVVLS VIAGKEK. VWPE 49 SESELVYFWQD QQKLVLYEHYLGTEKEDSVNAK B7RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ | 1 49 DILAINVYWEKEDEQVIQ.FVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SILSEINVFWQDQQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIENPEVSVIYYLPYKSPGIN.VDSSS LS L VYWQ | 1 49 DELAEVVYWER. EDEQVIQ. EVAGEEDELKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V | 1 49 DELLAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVIS VIAGKEK. VWPE 49 SESEEVVFWQD QQKLVIYEHYLGTEKEDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ | 49 DILALVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKIVIYEHYLGTEKI DSVNAK 37RP-1 71
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 | 1 S LLLSSLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C V L C 49 DLLALWWWEK. EDEQVIQ. FVAGEEDLKPQHSN 63 ESEDRIYWQK. HDKVVLSVIAGKLK. WPE 49 SLSELWVFWQDQQKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ V | 1 S LLLSELCAASAETEVGAMVGSN V VLSCIDPHRRHF 1 L S V L C 4 9 DLLALVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKIK. VWPE 4 9 SLSEIVVFWQD QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYLPYKSPGIN. VDSS LS L VYWQ V | 1 S LLLSBLCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S V L C 4 9 DLLALWWWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKWUSVIAGKLK.WWPE 49 SLSELVWFWQDQQKLWLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYWYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V | 1 S LLLSELCAASAETEVGAMVGSNŪVLSCIDPHRRHF 1 L S V L C 4 9 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK. WPE 49 SESELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ V | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S 49 DELAEVWWER. EDEQVIQ. EVAGEEDERPOHSN 63 ESEDRIYWOR. HDKVVLS. VIAGKEK. WPE 49 SESELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK 171 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ
 | 1 V L. S. L. S. SLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S. V L C 49 DILLAIVWWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVLS VIAGKIK. WPE 49 SILSEILWFWQD QQKLVLYEHYLGTEKIDSWNAK 171 NISGILYWYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ V | 1 / VLLISLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S LLLSLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DELAEVWWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWW. HDKWULS VIAGKEK WPE 49 SEEDRIYWWDD QQKLWIYEHYLGTEKEDSWNAK 171 NLSGLYWWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ | 17 VLLISBLCAASAETEVGAMVGSN VULSC PETKAQNI LL S LLLSCAASAETEVGAMVGSN VULSC IDPHRRHF LL S V L C V L C OLLALVVYWER. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKIK. WPE 49 SILSEIVVFWQD. QQKLVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGLYVYWQIENPEVSVIYYLPYKSPGIN. VDSSS LS L VYWQ V |
| 1 ERGRASLPKDOLLKGNAALOITIDVKLODAGVYCCI 11
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91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
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37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 1 81 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCCI 11
91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
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91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 1 81 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCCI 11
91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11
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91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVOIKDMGSYDCF 11
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91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 1 81 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCCI 11
91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11
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 | 1 81 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCCI 11
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82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDCF 11
37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR 13 | 1 ERGRASLPK D QLLKG N AALQITTD V KLQ D A G V Y C C I 11
91 Y KN R TLY D NTTYS L ITLGLVLS D R GTY S C V 12
82 Y LG R TSF D RN NW TLRLHN V QIK D M G S Y D C F 11
37RP-1 105 Y KN R GHLSL D SMKQG N FS L YLKN V TPQ D TQEFT G R 13 | 1 ERGRASLPK D QLLKG N AALQITTD V KLQ D A G V Y C C I 11
91 Y KN R TLY D NTTYSLITLGLVLS D R GTY S C V 12
82 Y LG R TSF D RN N WTLRLHN V QIK D M G S Y D C F 11
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91 Y KN R TLY D NTTYS L ITLGLVLS D R GTY S C V 12
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37RP-1 105 Y KN R GHLSL D SMKQG N FS L YLKN V TPQ D TQEFT G R 13 | 1 ERGRASLPK D QLLKG N AALQITTD V KLQ D A G V Y C C I 11
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91 Y KN R TLY D NTTYSLITLGLVLS D R GTY S C V 12
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37RP-1 105 Y KN R GHLSL D SMKQG N FSLYLKN V TPQ D TQEFT C R 13 | 1 81 FRGRASLPKDOLLKGNAALOITTDVKLODAGVYCCI 11
91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11 | 1 81 FRGRASLPKDOLLKGNAALOITTDVKLODAGVYCCI 11
91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSCV 12
82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11 | 1 81 FRGRASLPKDOLLKGNAALOITDVKLODAGVYCCI 11
91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSCV 12
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 | 1 81 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCCI 11
91 Yknr. tlydnttyslitiglylsdrgfyscy 12
82 Ylgr. tsfdrnnwtlrihnvolkdmgsydcf 11 | 81 FRGRASLPKDOLLKGNAALOITDVKLODAGVYCCI 1
91 Yknr. Tlydnt Tysliilglyisdrgfyscv 1 | 81 FRGRASLPKDOLLKGNAALOITDVKLODAGVYCCI 1
91 Vknr tiydnt tystitiigingspesty 1 | 37RP-1 71 N lschyvyno ienpevs v tyylpykspcin.Vddss
ls l vywo | 37RP-1 71 N lschyvymo ienpēvs v īyylpykspain.Vddss
ls l vymo
 | 37RP-1 71 NLSGLYVYWQIENPEVSVIYYLPYKSPGIN.VDDSS
LS L VYWQ V | 49 S lskil votwodooklolishildsonak
37rp-1 71 n lsglivovwo ienpēvs v iyylpykspgin.vdss
1. v * | 49 S lsel vvfwodooklvlyehylgtekidsvnak
37rp-1 71 n ls gijvvywoienpevsviyyylpykspgin.vdss
1 v * | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS
LS L VYWQ
 | 63 . ESEDRIYWOKHDKVVLSVIAGKIK.VWPE
49 SiseivvewodQokiviyehylghekidsvnAk
37rp-1 71 nisgivvywoienpevsviyyldykspgin.Vdbss
1. v * | 63 . ESEDRIYWOKHOKVVISVIAGKIK.VWPE
49 SiseinvewodQokiviyehyigtekidsvnark
37rp-1 71 nisgiyvywoienpevsviyyylpykspgin.Vdss
1. v * | 63 . ESEDRIYWOK HDKVVLS VIAGKLK. VWPE
49 SLSELVVFWOD QOKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS
LS L VYWQ V | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE
49 SISEIVVFWOD QOKLVLYEHYLGTEKIDSVNAK
37RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN. VDSS
LS L VYWQ | 63 ESEDRIYWOK. HOKVVLS VIAGKIK. WPE 49 SISEIVVFWOD. QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWOIENPĒVSVITYILPYKSPGIN. VDSS LS L VYWQ | 63 . ESEDRIYWOK HDKVVLSVIAGKIK.VWPE 49 SISEIVVFWQD QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ
 | 1 49 DILLALVVYWEK. EDEQVIQ. FVAGEEDIKPOHSN
63 . ESEDRIYWQK HDKVVIS VIAGKIK. VWPE
49 SISEIVVFWQD QQKIVIYEHYLGTEKIDSVNAK
37RP-1 71 NISGIYVYWQIENPĒVSVIYYLPYKSPGIN. VDSS
LS L VYWQ | L 49 DELAEVVYWEKEDEQVIQ.FVAGEEDERPOHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.WWPE 49 SESEDRIYWFWQDQQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN.WDSS LS L VYWQ | 1 49 DELLAEUVYWER. EDEQVIQ. EVAGEEDELKPQHSN 63 ESEDRIYWQK. HDKVVLS VIAGKEK. VWPE 49 SESEEVVFWQD QQKLVIYEHYLGTEKEDSVNAK 87RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ | 1 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK. HDKVVLS VIAGKEK. WPE 49 SESEDRIYWFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ | 1 49 DELAEVVYWEKEDEQVIQ.EVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.WPE 49 SESELVVFWQDQQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN.WDSS
LS L VYWQ | LL S V L C 49 DELAEVVYWER. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK. VWPE 49 SESEEVVFWOD. QOKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGEYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L | LL S V L C 49 DELAEVEVER. EDECVIO FVAGEEDEKPOHSN 63 .ESEDRIYWOK. HDKVVLSVIAGKEK. WPE 49 SESELVEWOD. QOKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ L V * | LL S V L C 63 .ESEDRIYWEREDEQVIQ. FVAGEEDLKPQHSN 49 SLSELVVFWQDQQKLVLSVIAGKLK.VWPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ LS L VYWQ L | LL S V L C V L C 63 .ESEDRIYWEREDEQVIQ. FVAGEEDLKPQHSN 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.WDSS LS L VYWQ LS L VYWQ 1 V *
 | 1 36 LLLSELCAASAETEVGAMVGSN W VLSCIDPHRRHF LL S V L C V L C 49 DELAEVWWER. EDEQVIO FVAGEEDEKPOHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK. WPE 49 SESELVFWOD. OOKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NEGELVVYWOIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ V L L | 1 S LLLSELCAASAETEVGAMVGSN V VLSIDPHRRHF LL S V L C 49 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.WPE 49 SESELVYFWQDQQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ L V * | 1 S LILSELCAASAETEVGAMVGSN W VILSCIDPHRRHF 1 L S V L C 4 DILAIVVYWEKEDEQVIQ.EVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.WPE 49 SISEIVVFWQDQQKLVLYEHYLGTEKIDSVNAR 37RP-1 71 NISGIYVYWQIENPEVSVIYYLPYKSPGIN.WDSS L V * | 1 S LLLSSLCAASAETEVGAMVGSNŪVILSCIDPHRRHF LL S 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKIK. VWPE 49 SILSEIVVFWQD. QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVLS VIAGKIK. WPE 49 SILSEILVVFWQD QQKIVIYEHYLGTEKIDSVNAK 171 NILSGIYVYWQIENPEVSWTYYLPYKSPGIN. VDSS LS L VYWQ
 | 1 V LLISELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1L S 49 DELAEVWER. EDEQVIQ. FVAGEEDERPQHSN 63 . ESEDRIYWOR HDKVVLS VIAGKE, WPE 49 SESEDRIYWOD QQKLVLYEHYLGTEKEDSWNAK 171 NESELVYFWQIENPEVSWIYYLPYKSPGIN. WDSS 1. S. L. VYWQ 1. L. VYWQ | 1 / VLLISLCALSAFINGTQXLFCELERACNI 1 / VLLISLCALSAETEVGAMVGSNWVLSCIDPHRRHF 1 L S 4 9 DELAEVWEREDEQVIQ.EVAGEEDEKPQHSN 63 .ESEDRIYWOKHDKVVLSVIAGKEK.WPE 49 SESEDRIYWODQQKLVLYEHYLGTEKEDSWNAK 1 NLSGLYWWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L | 17 VLLISBLCAASAETEVGAMVGSN V VLLGTDPHRRHF LL S LLLSBLCAASAETEVGAMVGSN V VLLGTDPHRRHF LL S 49 DLLALVVYWER. EDEQVIQ. FVAGEEDLKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKLK. WPE 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ |
| 1 ERGRASLPKDOLLKGNAALOITUVKLODAGVYCCI 11 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSCV 12 82 YLGR. TSFDRNNWTLRLHNVOIKDMGSYDCF 11 | 1 81 FRGRASLPKDQLLKGNAALQITTDVKLQDAGVYCGI 11
91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12
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91 YKNR. TLYDNT TYSLIIILGLVLSDRGTYSGV 12
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82 YLGR. TSFDRN NWTLRLHNVQIKDMGSYDGF 11
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 | 37RP-1 71 NISGIYVYWQIENPĒVSVIYYLPYKSPGIN.VDSS
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37rp-1 71 n lsglyvymo ienpēvs v iyyllpykspgin.Vdss
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37rp-1 71 n ls giyv ywo ienpevsviyylpykspgin.vdss
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 | 63 .ESEDRIYWOKHUKVVLSVIAGKIK.VWPE
49 SLSEIVVFWODQOKLVLYEHYLGTEKIDSVNAK
37rp-1 71 nisgiyvywoienpevsviyyylpykspgin.Vdss
1, vywo | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE
49 SISEIVVFWOD QOKLVLYEHYLGTEKIDSVNAK
37RP-1 71 NISGIYVYWOIENPEVSVTYYLPYKSPGIN. VDSS | 63 . ESEDRIYWOKHDKVVLSVIAGKIK.VWPE
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 | 1 V LLISELCA ASAETEVGANVGSNIVILISE I DPHRRHF 1L S 49 DILAIVINGEEDEQVIQ.FVAGEEDIRPQHSN 63 .ESEDRIYWOKHDKVVISVIAGKIK.VWPE 49 SISELVVFWODQQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGLYVYWOIENPEVSVIYYLPYKSPGIN.WDSS | 1 / VLLISLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S LLLSLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DLLALWWWER. EDEOVIO FVAGEEDLKPOHSN 63 ESEDRIYWOR. HDKWULS. VIAGKLK. WWPE 49 SLSELWWFWOD. OOKLWIYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYWWGIENPEVSWTYYLPYKSPGIN. WDSS | 17 VLLISBLOANSVETQAYFNGTQYLPCPETKAQNI DIL S 49 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEKDVWPE 49 SESEDRIYWYWQDQQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYLPYKSPGIN.WDSSS |
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91 Yknr. tlydnt tysliilglylsdrgiyscv 1 | 81 FRGRASLPKDOLLKGNAALOITUVKLODAGVYCCI 1
91 Vknr tlydnt tryslithglyngeryscy 1 | 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS | 37RP-1 71 NLSGLYVYWOIENPEVSWTYYLPYKSPGIN.WDSS
 | 37RP-1 71 NLSGLYVYWQIENPEVSVIYYLPYKSPGIN.VDDSS | 49 SISEITVVFWQDQQKLVLYEHYLGIJEKIDSVNAK
37RP-1 71 NISGIJYVYWQIENPĒVSVITYYLPYKSPGIN.VDSS | 49 S leselvyfwo dookl v lyehylgtekids v nak
37rp-1 71 n lsgilyvywo ienpevs v tyylpykspgin. v dss | 37RP-1 71 NLSGLYVYWQIENPEVSVIYYLPYKSPGIN.VDSS
 | 63 .ESEDRIYWOKHUKVVLSVIAGKUK.WWPE
49 Siseivvewodookiviyehylgtekidsvnak
37rp-1 71 nisgiyvywoienpevsviyyylpykspgin.Vdss | 63 . ESEDRIYWOK HDKVVLS VIAGKIK . VWPE
49 SILSEIVVFWOD QOKLVLYEHYLGTEKIDSVNAK
37RP-1 71 NILSGILYVYWOIENPEVSVIYYLPYKSPGIN . VDSS | 63 . ESEDRIYWOKHDKVVLSVIAGKLK.VWPE
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 | 1 S LLLSELCAASAETEVGAMVGSN W VLSCIDPHRRHF LL S V L C 49 DELAEVVYWEK. EDEQVIO. FVAGEEDEKPOHSN 63 ESEDRIYWOK. HDKVVLS VIAGKEK. WPE 49 SEEELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN. VDSS | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S V L C 4 DELAEVWWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK. WPE 49 SESELVVFWOD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C 49 DELAEVWWEKEDEQVIQ.EVAGEEDEKPQHSN 63 .ESEDRIYWWKHDKWVLSVIAGKEK.WPE 49 SESELVVFWQDQQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYWYWQIENPEVSWTYYLPYKSPGIN.WDSS | 1 S LLLSELCAASAETEVGAMVGSNŪVLSCIDPHRRHF LL S V L C 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDELKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK VWPE 49 SESELVVEWQD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYLPYKSPGIN.VDSS | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S 49 DILAIVVYWER. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWOR. HDKVVLS. VIAGKIK. WPE 49 SILSEILVVFWQD. QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILVVYWQIENPEVSWTYYLPYKSPGIN. VDSS
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91 Vknr tiydnt myslithgighkghysgy 1 | 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGLN.VDSS | 37RP-1 71 NLSGLYVYWOIENPĒVSVITYLPYKSPGIN. VDDSS
 | 37RP-1 71 NLSGLYVYWQIENPEVSVIYYLPYKSPGIN.VDSS | 37RP-1 71 N LSGLYVYWQ IENPĒVS V TYYLPYKSPGIN.VDSS | 49 S letenverwo dookl v lyehylgtekids v nak
37rp-1 71 n ls gily vywo ienpevs v tyylpykspgin.Vdss | 37RP-1 71 NLSGLYVYWQIENPEVSVIYYLPYKSPGIN.VDSS
 | 63 . ESEDRIYWOKHUKVVLSVIAGKIK.VWPE
49 SLSEIVVFWODQOKLVIYEHYLGTEKIDSVNAK
37RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN.VDDSS | 63 . ESEDRIYWOK HDKVVLS VIAGKIK. VWPE
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37RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN.VDSS | 63 ESEDRIYMOK. HOKVVLS. VIAGKLK. VWPE
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91 Yknr tlydnt mystitiglyngdrgnysgy 1 | 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDDSS | 37RP-1 71 NLSGLYVYWOIENPEVSVITYYLPYKSPGIN.VDSS
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 | 63 . ESEDRIYWOKHUKVVLSVIAGKIK.VWPE
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37rp-1 71 nisgiyvywotenpevsviyyilpykspgin.Vdss | 63 . ESEDRIYWOKHDKVVLSVIAGKIK.VWPE
49 SISEIVVFWODQQKLVIYEHYLGTEKIDSVNAK
37RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN.VDSS | 63 . ESEDRIYWQKHDKVVLSVIAGKLK.VWPE
49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS | 63 . ESEDRIYWOK HDKVVLS VIAGKLK. VWPE
49 SLSELVVFWOD QOKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS | 63 ESEDRIYWOK. HDKVVLSVIAGKLK. WPE
49 SLSELVVFWOD. QOKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS | 63 . ESEDRIYWOK HOKVVISVIAGKIK. WWPE
49 SISEIVVFWOD QOKIVIYEHYLGTEKIDSVNAK
37RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN. VDSS
 | 49 DELALVEYWEK. EDEQVIQ. FVAGEEDEKPOHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKEK. VWPE 49 SESELVVFWQD. QOKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVFYLPYKSPGIN. VDSS | 1 49 DILLAIJVVYWEKEDEQVIQ.FVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SISEIJVVFWQDQQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIJYVYWQIENPEVSVIYYLPYKSPGIN.VDSS | 1 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS | 1 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK. HDKVVLS VIAGKEK. WWPE 49 SESELVVFWQD QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS | 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKIK. VWPE 49 SISEIVVFWQD QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71
NISGIYVYWQIENPEVSVIYYLPYKSPGIN. VDSS | LL S V L C 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKEK. WPE 49 SESELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS | LL S V L C 49 DILAIVVYWER. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKIK. VWPE 49 SILSEILVVFWQD. QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIENPEVSVIYYLPYKSPGIN. VDSS | LL S V L C 49 DILLAILVIVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKIK. VWPE 49 SILSEILVVFWQD QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NILSGILYVYWQIENPEVSVIYYLPYKSPGIN. VDSS | LL S V L C V L C 49 DELAEVVYWER. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKEK. VWPE 49 SESELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS
 | 1 S LLLSELCAASAETEVGAMVGSN W VLSCIDPHRRHF LL S V L C V L C 49 DLLALWVYWEKEDEQVIQ.FVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.WPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVIYYLPYKSPGIN.WDSS | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C 49 DLLALWWWEKEDEQVIQ.EVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.WWPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S V L C 49 DLLALWWWEKEDEOVIO.FVAGEEDLKPOHSN 63 .ESEDRIYWOKHDKWULSVIAGKLK.WWPE 49 SLSELVWFWODQOKLWIYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYWYWOIENPEVSWTYYLPYKSPGIN.WDSS | 1 S LLLSELCAASAETEVGAMVGSNŪVLSCIDPHRRHF 1 L S V L C 4 9 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKEK, WPE 49 SESEDRIYWQD. QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESCLYVYWQIENPEVSVIYYLPYKSPGIN. VDSS | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF 1 L S 49 DELAEVWWER. EDEQVIQ. EVAGEEDELKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK. WPE 49 SLSELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS
 | 1 V LLISELCA ASAETEVGANVGSNIVILSCIDPHREHF 1L S 49 DILAIVIVINEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYNOK. HDKVVLSVIAGKIK. WPE 49 SISELVVFNQD QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGLYVYNQIENPEVSVIYYLPYKSPGIN. VDSS | 1 / VLLISLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S LLLSLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DLLALWWWER. EDEOVIO FVAGEEDLKPOHSN 63 ESEDRIYWOK. HDKWUS. VIAGKIK. WWPE 49 SLSELWWFWOD. OOKLWIYEHYLGTEKIDSWNAK 37RP-1 71 NLSGLYWYWOIENPEVSWTYYLPYKSPGIN. WDSS | 17 VLLISBLOANSVETQAYFNGTQYLPCPETKAQNI 27RP-1 36 LLLSBLOAASAETEVGAMVGSNWVLSCIDPHRRHF LL S 49 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWYKHDKVVLSVIAGKLK.WPE 49 SLSELVVFWQDQQKLVIYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS |
| LS L VYWQ V L V * 1 ERGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 11 91 YKNR. TLYDNTTYSLIILIGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1
 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLIILIGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLIILIGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLIILIGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLIILIGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLIILIGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLIILIGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLIILIGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCCI 11 91 YKNR. TLYDNTTYSLIIILGLVLSDRGTYSCV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDCF 11 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 11 91 YKNR. TLYDNTTYSLIILGLVLSDRGTYSGV 12 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 11 91 YKNR. TLYDNT TYSLIILIGLVLSDRGTYSGV 12 82 YLGR. TSFDRN NWTLRLHNVQIKDMGSYDGF 11 | LS L VYWQ V L V * 1 ERGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11
 | LS L VYWQ V L V * 1 ERGRASLPKDQLLKGNAALQITDVKLQDAGVYCCI 11 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12 82 YLGR. TSFDRNNWTLRLHNVQLKDMGSYDCF 11 | LS L VYWQ V L V * 81 FRGRASLPKDQLLKGNAALQIHDVKLQDAGVYCQI 1 91 YKNR, TLYDNTTYSLIILGLVLSDRGTYSGV 1 | LS L VYWQ V L
81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCCI 1
91 Yknr tlydnt tryslithglyngryscy 1 | 37RP-1 71 NLSGLYVYWOIENPEVSVIYYLPYKSPGIN.VDSS | 37RP-1 71 NISGINVINOIENPĒVSVĪYYLPYKSPGIN. VDSS
 | 37RP-1 71 NLSGLYVYWOIENPEVSVIYYLPYKSPGIN.VDSS | 37RP-1 71 N lsglyvywo ienpēvs v īyyleykspgin. V dss | 49 SLSELVVFWQDQQKLVIYEHYLGTEKLDSVNAK
37rp-1 71 nlsglyvywqienpevsviyylpykspgin.vddss | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS
 | 63 .ESEDRIYWOKHDKVVLSVIAGKUK.VWPE
49 SLSEIVVFWODQOKLVLYEHYLGTEKIDSVNAK
37RP-1 71 nisginvywoienpevs v iyylpykspgin.Vdss | 63 . ESEDRIYWOKHDKVVLSVIAGKIK.VWPE
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37RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN.VDSS | 63 . ESEDRIYWOK HDKVVLS VIAGKLK. VWPE
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37RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS | 63 ESEDRIYWOK. HDKVVLSVIAGKIK.VWPE
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37RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN.VDSS | 63 ESEDRIYMOK. HOKVVLS. VIAGKIK. WPE
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37RP-1 71 NISGIYVYWOIENPEVSVIYYLPYKSPGIN. VDSS | 63 ESEDRIYWENDE. OQKLVLYENYBEGIN. VDSSS 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS
 | 1 49 DILLALVVYWEKEDEQVIQ.FVAGEEDIKPQHSN
63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE
49 SISEIVVFWQDQQKIVIYEHYLGTEKIDSVNAK
37RP-1 71 NISGIYVYWQIENPEVSVIYYLPYKSPGIN.VDSS | 1 49 DILLAILVIVYWEKEDEQVIQ.FVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SILSEILVVFWQDQQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIENPEVSVIYYYLPYKSPGIN.VDSS | 1 49 DELLAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKEK. VWPE 49 SESEEVVFWQD. QQKLVIYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS | 1 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK. HDKVVLS VIAGKEK. VWPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NEGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS | 1 A 9 DELAEUVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLSVIAGKEK. WPE 49 SLSELVYFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71
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 | 1 36 LLLSBLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C V | 1 S LLLSELCAASAETEVGAMVGSN V VLSGIDPHRRHF 1 L S V L C 4 DLLALVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWYK. HDKVVLS. VIAGKIK. WPE 49 SLSEIVVFWOD. QQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS | 1 S LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C V L C 49 DELAEVWWEKEDEQVIQ.EVAGEEDEKPQHSN 63 .ESEDRIYWWCKHDKWVLSVIAGKEK.WPE 49 SESELVFWQDQQKLVLYEHYLGTEKEDSWNAK 37RP-1 71 NESELVVFWQIENPEVSWFYYLPYKSPGIN.WDSS | 1 S LLLSELCAASAETEVGAMVGSNŪVLSCIDPHRRHF LL S V L C 49 DELAEVVVWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK. VWPE 49 SESEDRIYWOD. QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVEYKSPGIN. VDSS | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWOK. HDKVVLS VIAGKIK. WPE 49 SISEIVVFWOI. QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWOIENPEVSWIYYLPYKSPGIN. VDSS
 | 1 V LLISELCAASAETEVGAMVGSNWWLSCIDPHRRHF 1L S 49 DELAEVWWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWWCKHDKVVLSVIAGKE.WPE 49 SEEELVFWQDQQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NEGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS | 1 / VLLISLCALSAFINGTQXHFGFFFFFT 1 36 LLLSLCALSAETEVGAMVGSNWVLSCIDPHRRHF 1 L S 49 DLLALVVYWEKEDEQVIQ.FVAGEEDIKPQHSN 63 .ESEDRIYWYWCKHDKVVLSVIAGKIK.WPE 49 SLSEIVVFWODQQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NLSGLYVYWOIENPEVSWTYYLPYKSPGIN.VDSS | 17 VLLISBLANSVETQAYFNGTQYLPCPETKAQNI 27RP-1 36 LLLSBLCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S V L C V L C 49 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.VDSS |
| LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCCI 11 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITTDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 87 RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLIIILGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 82 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 11 91 YKNR. TLYDNTTYSLIIILGLVLSDRGTYSGV 12 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNR. TLYDNT TYSLITLGLVLSDRGTYSGV 12 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
 | LS L VYWQ V L V X X ERASLPK DOLLKGNAAL OTT DVKLODAGVYCGI 11 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGR. TSFDRNNWTLRLHNVOIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKOGNFSLYLKNVT PQDT QEFT GR 13 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13
 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR 13 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITILGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITTDVKLQDAGVYCGI 11 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 12 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 11 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCCI 11 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11 | LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCCI 11 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSCV 12 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDCF 11
 | LS L VYWQ V L V * 1 | LS L VYWQ V L V * 81 FRGRASLPKDQLLKGNAALQITTDVKLQDAGVYCCI 1 91 YKNR. TLYDNT. TYSLIILGLVLSDRGTYSCV 1 | LS L VYWQ V LS L VYWQ V LS L VYWQ IS FRGRASLPKDQLLKGNAALQIHDVKLQDAGVYCQI 1 | 37RP-1 71 NILSGILVIVIMOTENPENSIVITY LPYKISPGIN. VIDSIS | 37RP-1 71 NISGINVYWOTFNPFIVSVITYLPYKSPGIN. VDSS
 | 37RP-1 71 NISGIVAYWOTENPENSATYLPYKSPGIN.VDSS | 37RP-1 71 NISGIVOYWOTENPĒVSVIYYLPYKSPGIN.VDSS | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
37rp-1 71 nlsglivvywotfnpfnsvtyylpykspgin.Vdss | 49 SISELVVEWOD. QOKLVLYEHYLGTEKIDSVNAK
37RP-1 71 NISGIVVYWOTENPENSVITYYLPYKSPGIN. VDSS
 | 63 .ESEDRIYMOKHUKVVLSVIAGKUK.VMPE
49 SLSELVVFWODQOKLVLYEHYLGTEKLDSVNAK
37rp-1 71 nlsglivvywotfnpfivsvtyylpykspgin.Vdss | 63 . ESEDRIYWOK HDKVVIS VIAGKIK. VWPE
49 SISEIVVFWOD QOKIVIYEHYLGTEKIDSVNAK
37RP-1 71 NISGIYVYWOTENPRVSVIYYLPYKSPGIN. VDSS | 63 ESEDRIYWOK. HDKVVIS. VIAGKIK. VWPE
49 SISEIVVEWOD. QOKIVIYEHYLGTEKIDSVNAK
37RP-1 71 NISGIVVYWOTENPEVSVIYYLPYKSPGIN. VDSS | 63 EBEDRIYWOK. HOKVVIS. VIAGKIK. VWPE 49 SISEIVVFWOD. OOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWOTENPRVSVIYYLPYKSPGIN. VDSS | 63 ESEDRIYMOK. HOKVVLS. VIAGKLK. VWPE 49 SLSELVVFWOD. OOKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWOTFNPFVSVLYYLPYKSPGIN. VDSS | 63 . ESEDRIYWOK . HDKVVIS VIAGKIK . VWPE 49 SISEIVVEWOD QOKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWOTENPRVSVIYYLPYKSPGIN . VDSS
 | 1 49 DILLALVVYWEKEDEQVIQ.FVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SISEIVVFWQDQQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIVVYWOTFNPRVSVTYYLPYKSPGIN.VDSS | 1 49 DILLAINVYWEKEDEQVIQ.EVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SISEIVVFWQDQQKIVIYEHYLGTEKIDSVNAK 37RP-1 71 NISGIYVYWQIFNPFVSVIYYLPYKSPGIN.VDSS | 1 49 DELLAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVIS VIAGKEK. VWPE 49 SLSEEVVFWQD QQKLVIYEHYLGTEKEDSVNAK STRP-1 71 NESGEVYWQTENPRVSVEYYLPYKSPGIN. VDSS | 1 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK VWPE 49 SESELVYFWQD QQKLVLYEHYLGTEKEDSVNAK STRP-1 71 NESGINVYWQTENPRVSVITYYLPYKSPGIN. VDSS | 1 49 DILLAINVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKIK. VWPE 49 SISEIVVFWQD. QQKIVIYEHYLGTEKIDSVNAK
 | LL S V L C 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SLSEEVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGEVVYWQTENPRVSVEYYLPYKSPGIN. VDSS | LL S V L C 49 DELAEVEVER. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESEDRIYWFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGEVYWQTENPRVSVEYYLPYKSPGIN. VDSS | LL S V L C 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGIYVYWQTENPRVSVEYYLPYKSPGIN. VDSS | LL S V L C V L C 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPOHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK. VWPE 49 SESELVVFWOD QQKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGEVYYWOTENPRVSVEYYLPYKSPGIN. VDSS
 | 1 36 LLLSBLCAASAETEVGAMVGSN V VLSCIDPHRRHF LL S V L C V L C 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK. VWPE 49 SESERVYFWQD QQKLVLYEHYLGTEKEDSVNAK 71 NESGIYVYFWQTENPEVSVEYEREDSVNAK | 1 S LLLSELCAASAETEVGAMVGSN V VLSIDPHRRHE 1 L S V L C 4 DLLALVVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKIK. WPE 49 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWOTENPEVSVITYYLPYKSPGIN. VDSS | 1 S LILSELCAASAETEVGAMVGSNWWIJSCIDPHRRHF LL S V L C V L C 49 DILAIVVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKIK. WPE 49 SISEIVVFWOD. QQKLVLYEHYLGTEKIDSVNAK | 1 S LILSELCAASAETEVGAMVGSNŪVILSCIDPHRRHF 1 L S 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVIS. VIAGKIK. VWPE 49 SISEIVVFWQD. QQKLVIYEHYLGTEKIDSVNAK | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF 1 L S 49 DELAEVWER. EDEOVIO FVAGEEDERPOHSN 63 ESEDRIYWER. HDKVVLSVIAGKEK. WPE 49 SESEDRIYWEWD. OOKLVLYEHYLGTEKEDSWARK 37RP-1 71 NESGEVVYWOTENPRVSWEYSPGIN. WDSS
 | 1 V LLISELCAASAETEVGAMVGSN V VLSCIDPHRRHF 1L S 49 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWYWCKHDKVVLSVIAGKEK.WPE 49 SESERVYFWQCQCKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESGIVVYWOTENPEVSVEYERSEGIN.WDSS | 1 / VLLISLCALSTEVGANGSNUVILSCIDPHRRHF LL S LL S V L C 49 DELAEVWER. EDEQVIQ. EVAGEEDEKPOHSN 63 . ESEDRIYWOK. HOKVVIS VIAGKEK. WPE 49 SESELVVFWOD QOKLVIYEHYLGTEKEDSVNAK 71 NESCHVVFWOTENPENSNITY YLDYKSPGIN. VDSS | 17 VLLISBLCAASAETEVGAMVGSN VULSC IDPHRRHF LL S LLLSBLCAASAETEVGAMVGSN V V L SCIDPHRRHF LL S 49 D L LA L V VYWE KEDEQ V IQ.FVAGEED L KPQHSN 63 .ESEDRIYWQKHDKV V LSVIAGK L K.WPE 49 S LSEL V VFWQ DQQKL V LYEHYLGTEK L DS V NAK |
| LS L VYWQ V LS L VYWQ V LS L VYWQ V LS L VYWQ V V LS L VYWQ V V LS LY LYDNTTYSLIILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF | LS L VYWQ V L V * LS L VYWQ V L V * 1 | LS L VYWQ V L V * LS L VYWQ V L V * 1. V * LS L VYWQ V V L V * 91 | LS L VYWQ V L V * 1. S1 FRGRASLPKDQLLKGNAALQITUDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | LS L VYWQ V L V * LS L VYWQ V L V * 1. STRNR.TLYDNTTVSLITILGLVILSDRGVYCGI 82 YLGR.TSFDRNNWTLRIHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | LS L VYWQ V L V * LS L VYWQ V L V * 91 YKNR. TLYDNTTYSLIIILGLVISDRGIYSGV 82 YLGR. TSFDRNNWTLRIHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | LS L VYWQ V LS L VYWQ V LS L VYWQ V 1 | LS L VYWQ V LS L VYWQ V LS L VYWQ V 1
 | LS L VYWQ V L V * LS L VYWQ V L V * 1. V * LS L VYWQ V V 9.1 YKNR. TLYDNT. TYSLITIGLVILSDRGTYSGV 8.2 YLGR. TSFDRN. NWTLRIHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
 | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
 | LS L VYWQ V LS L VYWQ V 1 REGRASLPKDQLLKGNAALQITLDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 37RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | LS L VYWQ V LS L VYWQ V LS L VYWQ V 1 YKNR.TLYDNTTYSLITIGLVILSDRGIYSGV 82 YLGR.TSFDRNNWTLRIHNVQIKDMGSYDGF | LS L VYWQ V LS L VYWQ V 1 S1 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQLKDMGSYDGF | LS L VYWQ V L V * LS L VYWQ V L V * 1 | LS L VYWQ V LS L VYWQ V LS L VYWQ V LS L VYWQ V V LS L VYWQ V V LS LY LYDNTTYSLIILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF
 | LS L VYWQ V L V * LS L VYWQ V L V * 1 | LS L VYWQ V L V * 81 FRGRASLPKDOLLKGNAALOTHDVKLODAGVYCGI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV | LS L VYWQ V L V * 1. L VYWQ V L V * 8.1 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 9.1 VKNR TLVPNT TVST.TTLGLVILSDRGTYSGV | DADE 1 71 NIT COLON VARIATION DENI CAMPONT DVINCIPAL INTROPOR | DADE 1 71 NIT CATIVITY TENDERIZERINO DARIGIDATIN MINICIPALIZA
 | A D LINE OF THE CONTROLL OF THE PROPERTY OF TH | 49 SLSELVYFWQDQQKLVLYEHYLGIJEKLDSVNAK
opp. 1 71 ntchtyppedtenderickfroot bokkapatn vinga | 49 SISEITVVEWQDQQKIVIYEHYLGTEKIDSVNAK | 49 SLSELVVFWOD. OOKLVLYEHYLGTEKLDSVNAK | 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK | 63 ESEDRIYWOKHDKVVLSVIAGKIK.VWPE
49 SISEIVVFWODQOKLVLYEHYLGTEKIDSVNAK
 | 63 . ESEDRIYMOKHDKVVLSVIAGKIK.VWPE
49 SISEIVVFWODOOKLVLYEHYLGTEKIDSVNAK | 63 ESEDRIYWOK. HDKVVLS. VIAGKIK.VWPE
49 SISEIVVFWQD. QQKLVLYEHYLGTEKIDSVNAK | 63 ESEDRIYWOK. HDKVVIS. VIAGKIK. WPE 49 SISEIVVEWOD. QOKIVIYEHYLGTEKIDSVNAK | 63 . ESEDRIYMOK HOKVVISVIAGKIK.VWPE 49 SISEIVVFWOD QOKIVIYEHYLGTEKIDSVNAK | 1 49 DILLALIVIVIMEKEDEQVIQ.FVAGEEDILKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SISEIVVFWQDQQKIVIYEHYLGTEKIDSVNAK
 | 1 49 DILAIVVYWEKEDEQVIQ.FVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SISEIVVFWQDQQKIVIYEHYLGTEKIDSVNAK | 1 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLS VIAGKEK. VWPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK | 1 49 DELLAEUVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK. HDKVVLS VIAGKEK. WPE 49 SESELVVFWQD QQKLVIYEHYLGTEKEDSVNAK | 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKIK. VWPE 49 SISEIVVFWQD QQKLVLYEHYLGTEKIDSVNAK | LL S 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 49
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49 SLSELVVFWODQQKLVLYEHYLGTEKLDSVNAK | 63 . ESEDRIYWOKHDKVVLSVIAGKIK.VWPE
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49 SISEIIVVFWOD. OOKIVIYEHYLGTEKIDSVNAK | 63 ESEDRIYWOK. HDKVVLS. VIAGKKK. WPE
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 | 49 DILLALVVYWEKEDEQVIQ.FVAGEEDIKPQHSN
63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE
49 SISELVVFWQDQQKLVLYEHYLGTEKIDSVNAK | 49 DILLAINVYWEKEDEQVIQ.EVAGEEDIKPQHSN63.ESEDRIYWQKHDKVVLSVIAGKIK.VWPE49 SISEINVFWQDQQKLVIYEHYLGTEKIDSVNAK | 49 DILAIVVYWEK. EDEQVIQ. EVAGEEDIKPQHSN63 . ESEDRIYWQK. HDKVVLS VIAGKIK. VWPE
49 SISEIVVFWQD QQKLVIYEHYLGTEKIDSVNAK | 49 DELLAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN
63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE
49 SESELVVFWQDQQKLVLYEHYLGTEKEDSVNAK | 49 DILAIVVYWEKEDEQVIQ.EVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SISEIVVEWQDQQKLVLYEHYLGTEKIDSVNAK
 | LL S 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SILSEIVVFWQDQQKLVLYEHYLGTEKIDSVNAK | LL S V L C 49 DELAEVEVER. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK HDKVVLS VIAGKEK. VWPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK | LL S 49 DELAEVVYWEKEDEQVIQ.EVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.WPE 49 SESELVVFWQDQQKLVLYEHYLGTEKEDSVNAK | LL S V L C 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLSVIAGKEK. VWPE 49 SESEKVYFWQD QQKLVLYEHYLGTEKEDSVNAK | 1 36 LLLSELCAASAETEVGAMVGSN V VLSCIDPHRRHF
LL S
V L C
V L C
49 DLLALVVYWEKEDEQVIQ.FVAGEEDIKPQHSN
63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE
49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
 | 1 36 LLLSELCAASAETEVGAMVGSN V VLSCIDPHRRHE 1 L S 49 DLLALVVYWEKEDEQVIQ.EVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.WPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK | 1 36 LLISELCAASAETEVGAMVGSN W VLSCIDPHRRHF LL S 49 DLLALVVYWEK.EDEQVIQ.FVAGEEDLKPQHSN 63 ESEDRIYWQK.HDKVVLS.VIAGKLK.WPE 49 SLSELVVFWQD.QKLVLYEHYLGTEKLDSVNAK | 1 36 LLLSELCAASAETEVGAMVGSNŪVLSCIDPHRRHF LL S 49 DLLALVVYWEK.EDEQVIQ.FVAGEEDLKPQHSN 63 ESEDRIYWQK.HDKVVLS.VIAGKLK.WPE 49 SLSELVVFWQD.QKLVLYEHYLGTEKLDSVNAK | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF 1 L S 49 DELAEVWWEK. EDEQVIQ. FVAGEEDELKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK. WPE 49 SESELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK
 | 1 V LLISELCAASAETEVGAMVGSN V VLSCIDPHRRHF 1 S V L C 4 9 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 . ESEDRIYWOK. HDKVVLSVIAGKEK. WPE 4 9 SESELVYFWQDQQKLVLYEHYLGTEKEDSVNAK | 1 / VLLISPDANSVETOAYFNGTQXHFGFETRADNI 27RP-1 36 LLISBLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DLLALWWWEKEDEQVIQ.EVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.WPE 49 SLSELVVEWQDQQKLVLYEHYLGTEKLDSVNAK | 17 VLLISBLCAASAETEVGAMVGSN VULSC IDPHRRHF LL S LLLSBLCAASAETEVGAMVGSN V VLSCIDPHRRHF LL S V L C V L C OLLALVVYWEK.EDEOVIO.FVAGEEDIKPOHSN 63 ESEDRIYWOK.HDKVVLS.VIAGKIK.WPE 49 SLSELVVFWOD.QQKLVLYEHYLGTEKIDSVNAK |
| 37RP-1 71 N lsglyvywo ienpevs W tyylpykspgln. W dss
Ls Lyywo v Ls Lywo v Ls Lybolikgnaaloitofkestyrcoi
91 y knr. tlybnttysliilglylsbrgtyscv
82 y lgrtsprn n wtlrlhnvoikdmgs y lge | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ 1 | 37RP-1 71 N LS GLYVYWQ IENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ V 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ 1 81 FRGRASLPKDQLLKGNAALQITUWKLQDAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ V 1 VKNR 91 YKNR.TLYDNTTYSLIILGLVLSDAGVYCGI 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 77RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ V 1 VKNR 91 YKNR.TLYDNTTYSLIILGLVLSDRGVYCCI 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDCF 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDCF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTCR | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 81 FRGRASLPKDQLLKGNAALQITDWKLQDAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1
 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1
 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1
 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ V 1 VKNR 1 FRGRASLPKDQLLKGNAALQITDWKLQDAGVYCGI 91 YKNR.TLYDNTTYSLITLGLWLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ V 1 | 37RP-1 71 N LS GLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V LS L VYWQ V 1 | 37RP-1 71 N lsglyvywo ienpevs W tyylpykspgln. W dss
Ls Lyywo v Ls Lywo v Ls Lybolikgnaaloitofkestyrcoi
91 y knr. tlybnttysliilglylsbrgtyscv
82 y lgrtsprn n wtlrlhnvoikdmgs y lge
 | 37RP-1 71 N ls Glyvywoienpevswyylpykspgin.Wdss
Ls lywo v ls vywo v ls vywo
1 81 Frgraslpkdollkgwarlottowklodagvycci
91 yknr. tlydnttyslittglylsdrgfyscy
82 ylgr. tsfdrnnwytrrihnvolkdmgsydgf | 77RP-1 71 N ls G lyvywo ienpevs v tyylpykspgin. V dss
Ls L vywo v
81 Frgraslpkbollkg n arottopwklodagvycqi
91 Yknr.tlybnttyslittglvtsbrgtysqv | 7RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGLN.VDSS LS LVYWQ V 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 VKNR TLYDNT TYST.TITGLKG | |
 | TO THE TOTAL THE ALL VICTOR TO A PART OF THE PROPERTY OF THE P | 49 STSETANTENTOUS OCKINITER LIGHTENTONIAR | 49 SLSELVVEWODQOKLVIYEHYLGHEKLDSVNAK | 49 SLSELVVFWQDQQKLVLYEHYLGHEKLDSVNAK | 63 . ESEDRIYMOKHDKVVLSVIAGKLK.VWPE
49 SLSELVVFWODQOKLVIYEHYLGTEKLDSVNAK | 63 . ESEDRIYWOKHDKVVLSVIAGKKK.VWPE
49 SISEIVVFWODQOKLVLYEHYLGHEKIDSVNAK
 | 63 . ESEDRIYWOKHDKVVLSVIAGKLK.VWPE
49 SLSELVVFWODQOKLVLYEHYLGTEKLDSVNAK | 63 ESEDRIYWOKHDKVVLSVIAGKEK.VWPE
49 SESELVVFWODQOKLVLYEHYLGTEKEDSVNAK | 63 ESEDRIYWOK HOKVVIS VIAGKIK WPE
49 SISEIVVFWOD OOKIVIYEHYLGTEKIDSVNAK | 63 . ESEDRIYMOK HOKVVISVIAGKIK.VWPE
49 SISEIVVFWOD QOKIVIYEHYLGTEKIDSVNAK | 49 DILLALIVVYWEKEDEQVIQ.FVAGEEDLKPQHSN
63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE
49 SISEIVVFWQDQQKIVIYEHYLGHEKIDSVNAK
 | 1 49 DILAINVYWEKEDEQVIQ.FVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SISEIVVFWQDQQKLVLYEHYLGTEKIDSVNAK | 1 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK. HDKVVLS VIAGKEK. VWPE 49 SESEPVYFWQD QQKLVLYEHYLGTEKEDSVNAK | 1 49 DELLAEUVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK. HDKVVLS VIAGKEK. WPE 49 SESELVVFWQD QQKLVIYEHYLGTEKEDSVNAK | 49 DILAINVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SISEIVVFWQDQQKLVLYEHYLGTEKIDSVNAK | LL S 49 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 49 SESEVYFWQDQQKLVLYEHYLGTEKEDSVNAK
 | LL S V L C 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKEK. VWPE 49 SESELVVFWQD QQKLVIYEHYLGTEKEDSVNAK | LL S 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQKHDKVVLSVIAGKIK.VWPE 49 SILSEIVVFWQDQQKLVLYEHYLGTEKIDSVNAK | LL S V L C 49 DELAEVVYWER. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKEK. VWPE 49 SESELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK | 1 36 LLLSELCAASAETEVGAMVGSN V VLSCIDPHRRHF LL S V L C V L C 49 DLLALVVYWEKEDEQVIQ.EVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.VWPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK
 | 1 36 LLLSELCAASAETEVGAMVGSN W VLSCIDPHRRHE 1 S V L C 49 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.WWPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK | 1 36 LLLSBLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S V L C 49 DLLALWWWEKEDEOVIO.FVAGEEDLKPOHSN 63 .ESEDRIYWOKHDKWULSVIAGKLK.WWPE 49 SLSELWVFWODOOKLWLYEHYLGTEKLDSWNAK | 1 36 LLLSELCAASAETEVGAMVGSNÜVLSCIDPHRRHF 1 L S 49 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 49 SESELVVFWQDQQKLVIYEHYLGTEKEDSVNAK | 1 S LLLSELCAASAETEVGAMVGSNWVLSCIDPHRRHF 1 L S V L C 49 DELAEVVYWEK. EDEQVIQ. EVAGEEDELKPQHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKEK. WPE 49 SLSELVVFWQD. QQKLVLYEHYLGTEKEDSVNAK | 1 V LLISELCAPSAETEVGAMVGSNWVILSCIDPHRRHF LL S 49 DILAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQK HDKVVLS VIAGKIK. WPE 49 SISEIVVFWQD QQKLVIYEHYLGTEKIDSVNAK
 | 1 / VLLISPDAVSVETOAYFNGTQXHFGFETRADNI 27RP-1 36 LLLSBLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S 49 DLLALWWWEKEDEOVIO.FVAGEEDLKPOHSN 63 .ESEDRIYWOKHDKVVLSVIAGKLK.WWPE 49 SLSELVVFWODQQKLVIYEHYLGTEKLDSVNAK | 17 VLLISBLOANSVETQAYFNGTQYLPCPETKAQNI 27RP-1 36 LLISBLOAASAETEVGAMVGSNWVLSCIDPHRRHF LL S 49 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.WPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK |
| 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ V L V * L VYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS LVYWQ V L V * LS LVYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS LVYWQ V LS LVYWQ 1 | 37RP-1 71 N LSGLYVYWQ IENPEVS V TYYLPYKSPGIN.VDSS
LS L VYWQ V L V *
1 81 FRGRASLPKDQLLKGNAALQTHDVKLQDAGVYCGI
91 YKNR.TLYDNTTYSLITLGLVLSDRGTYSGV
82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF
82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF
837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS LVYWQ V L V L V L V S1 FRGRASLPK D QLLKG N AALQITD V KLQ D A G V Y C G I 91 Y KNR.TLYDNTTYSLITIGLVLS D R G T Y S C V 82 Y LGR.TSF D RN N WTLRLHN V QIK D M G S Y D G F 37RP-1 105 Y KN R GHLSL D SMKQG N FSLYLKN V TPQ D TQEFT G R | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ V L V * LS L VYWQ V L V * 1 YKNRTLYDNTTYSLITLGLVLSDRGVYCGI 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTCR | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ V L V * LS L VYWQ V L V * 1 VYWQ 1 VKNRTLYDVLLKGNAALOITUVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 87 RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ V L V * LS L VYWQ V L V * 1 81 FRGRASLPK D QLLKG N AA L QITD V KLQ D A G V Y C G I 91 Y KNR.TLY D NTTYS L IIILGLVLS D R G T Y S G V 82 Y LGR.TSF D RN N WT L RLHN V QIK D M
G S Y DGF 87RP-1 105 Y KNRGHLSL D SMKQG N FS L YLKN V TPQDTQEFTGR | 37RP-1 71 N LS GLYVVWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L V * LS L VYWQ V L V * 1 81 FRGRASLPKDQLLKGNAALOITDVKLQDAGVYCGI 91 YKNR.TLYDNTTYSLIILGLVLSDRGTYSGV 82 YLGR.TSFDRNNWTLRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS LVYWQ V L V * L VYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS LVYWQ V L V * L | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS LVYWQ V L V * L VYWQ 1 | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS LVYWQ V L V * L VYWQ 1 | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS LVYWQ V L V * L VYWQ 1 | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS LVYWQ V L V * L VYWQ 1 | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS LVYWQ V L V * L VYWQ 1 | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS LVYWQ V L V * L VYWQ 1 | 37RP-1 71 N LS GLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS LVYWQ V L V * L V
* L V * L | 37RP-1 71 N LS GLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS LVYWQ V L V * L | 37RP-1 71 N LS GLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS LVYWQ V L V * L | 37RP-1 71 N LS GLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS LVYWQ V L V * L | 37RP-1 71 N LS GLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS LVYWQ V L V * L | 37RP-1 71 N LS GLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS LVYWQ V L V *
L V * L | 37RP-1 71 N LS GLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS LVYWQ V L V * L | 37RP-1 71 N LS GLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L V * | 37RP-1 71 N LS GLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V LS L VYWQ V L V * | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ V L V * L V | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS LS L VYWQ V L V * L VYWQ 1
 | 37RP-1 71 N LS G L Y VYWQ IENPEVS V TYYLPYKSPGIN. V DSS
L V * LS L VYWQ V L V * 1 81 FRGRASLPK D QLLKG N AALQITD V KLQ D A G V Y C G I 91 Y KNR. TLY D NTTYSLITLGLVLS D R G T Y S C V 82 Y LGRTSF D RN N WTLRLHN V QLK D M G S Y D G F | 77 N ls Glyvwyienpevsvtylpykspcin.Vdss
L V *
LS L VYWQ V
81 Frgraslpkdollkgnarottodagvycqi
91 Yknr.tlydnttrysliilglylsdrgtysqv | 77RP-1 71 N lsclyvywo ienpevs v tyylpykspgin. v dss
Ls L vywo V L V *
81 Frgraslpkdollkgnalothodagvycqi
91 vxnr Tiydnt Thestithsodagvycqi | |
 | | 49 STSELVALMOD OOKLALKEHYLGLIEKHDUVINAK | 49 SILSEINVEWODOOKLVINEHYLGHEKINDSWNAK | 49 SISELVVEWODQQKLVLYEHYLGTEKIDSVNAK
 | 63 ESEDRIYWOKHUKVVLSVIAGKUK.VWFE
49 S lseh vvewodqoklvlyehylgtekuds v nAk | 63 EBEDRIYWOKHDKVVISVIAGKIK.VWPE
49 SISEIVVFWODQOKIVIYEHYLGTEKIDSVNAK | 63 EBEDRIYWOKHDKVVLSVIAGKLK.VWPE
49 SLSELVVFWODQOKLVLYEHYLGTEKLDSVNAK | 63 ESEDRIYWOKHDKVVLSVIAGKIK.VWPE
49 SISEIVVFWODQQKLVLYEHYLGTEKIDSVNAK | 63 ESEDRIYWOK HDKVVLS VIAGKIK. WWPE
49 SISELVVFWOD QOKLVLYEHYLGTEKIDSWNAK | 63 ESEDRIYMOK. HOKVVIS VIAGKIK. VWPE 49 SISELVVFWOD QOKIVIYEHYLGTEKIDSVNAK
 | 49 D i la i voywekedeqviq.fvageedikpohsn
63 .esedriywqkhdkvvisviagkik.vwpe
49 s isei vofwodqqkiviyehyigtekidsvnak | 1 49 DILAINVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 . ESEDRIYWQK. HDKVVLS VIAGKIK. VWPE 49 SISEINVFWQD QQKLVLYEHYLGTEKIDSVNAK | 1 49 DELLAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLSVIAGKEK. VWPE 49 SESEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK | 1 49 DILLAILVIVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVIS. VIAGKIK. VWPE 49 SISEILVIVFWQD. QKILVIYEHYLGTEKIDSVNAK | 49 DILAINVYWER. EDEOVIO FVAGEEDIKPOHSN 63 ESEDRIYWOK. HDKVVLS. VIAGKIK. VWPE 49 SISEINVFWOD. QOKLVIYEHYLGTEKIDSVNAK
 | LL S 49 DELAEVVYWEKEDEQVIQ.EVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 49 SESELVVFWQDQQKLVLYEHYLGTEKEDSVNAK | LL S V L C 49 D L LA L V VYW EKEDEQ V IQ.FVAGEED L KPQHSN 63 .ESEDRIYWQKHDKV V LSVIAGKLK. V WPE 49 S LSEL V V FWQDQQKL V LYEHYLGTEK L DS V NAK | LL S 49 DELAEVVYWER. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLS VIAGKEK. VWPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK | LL S V L C 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWQK. HDKVVLSVIAGKEK. WPE 49 SESELVVFWQD QQKLVLYEHYLGTEKEDSVNAK
 | 1 36 LLLSBLCAASAETEVGAMVGSN W VLSCIDPHRRHF
LL S
V L C
V L C
49 DLLALWVYWEKEDEQVIQ.FVAGEEDLKPQHSN
63 .ESEDRIYWQKHDKVVLSVIAGKLK.WPE
49 SLSELWVFWQDQQKLVLYEHYLGTEKLDSVNAK | 1 36 LLLSELCAASAETEVGAMVGSN V VLSCIDPHRRHF
1 L S V L C
49 DLLAEVVYWEKEDEOVIO.FVAGEEDLKPOHSN
63 .ESEDRIYWOKHDKVVLSVIAGKLK.VWPE
49 SLSELVVFWODQQKLVLYEHYLGTEKLDSVNAK | 1 36 LLLSBLCAASAETEVGANVGSN V VLSCIDPHRRHF 1 L S 49 DLLALVVYWEK. EDEQVIQ. FVAGEEDLKPQHSN 63 ESEDRIYWOK. HDKVVLSVIAGKLK. WPE 49 SLSELVVFWOD QQKLVLYEHYLGTEKLDSVNAK | 1 36 LLISELCAASAETEVGAMVGSNŪVLISCIDPHRRHF
LL S
49 DELAEVVYWEK. EDEQVIQ. EVAGEEDEKPQHSN
63 ESEDRIYWOK. HDKVVLSVIAGKEK. WPE
49 SESELVVEWOD QQKLVLYEHYLGTEKEDSVNAK | 1 S LLISELCA ASAETEVGANVGSNIVILISCI DPHRRHF 1 L S V L C 49 DILLAIVIVINEK. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIIVOK. HDKVVLS. VIAGKIK. VWPE 49 SISEIVIVENQD. QQKLVLYEHYLGTEKIDSVNAK
 | 1 V LLISELCAASAETEVGAMVGSNWWILSCIDPHRRHF 1 S V L C 49 DILLAIVVYWEK. EDEQVIQ. FVAGEEDIKPQHSN 63 ESEDRIYWOK. HDKVVIS. VIAGKIK. WPE 49 SISELVVFWQD. QQKIVIYEHYLGTEKIDSVNAK | 1 / VLLISDAVSVETOAYFNGTQXLFCFETRACNI
27RP-1 36 LLLSBLCAASAETEVGAMVGSNWWLSCIDPHRRHF
LL S V L C
49 DLLALWWWEKEDEQVIQ.FVAGEEDLKPQHSN
63 .ESEDRIYWOKHDKVVLSVIAGKLK.WPE
49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK | 17 VLLISBLANSVETQAYFNGTQYLPCPETKAQNI 27RP-1 36 LLLSBLCAASAETEVGAMVGSNWVLSCIDPHRRHF LL S V L C 49 DLLALVVYWEKEDEQVIQ.EVAGEEDLKPQHSN 63 .ESEDRIYWOKHDKVVLSVIAGKLK.WPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK |
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91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV
82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF
837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 49 SILSEILVVFWQDQQKLVLYEHYLGTEKIDSVNAK
37RP-1 71 NILSGILYVYWQ1ENPEVSVTYYLPYKSPGIN.VDSS
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81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI
91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV
82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF
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49 DELAEVVYWEK.EDEOVIO.FVAGEEDEKPOHSN | LL S V L C V L C 49 DELAEVVYWEK. EDECVIO. FVAGEEDEKPOHSN | DARP-1 36 LLLSELCAASAETEVGAMVGSN V VLSCIDPHRRHF
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LL S
V L C
49 DELAEVVYWEK.EDEQVIQ.EVAGEEDEKPOHSN | 1 36 LLISELCAASAETEVGAMVGSNWVLSCIDPHRRHF
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 | 17 VILISBAVSVETQAYFNGTQYIPCPETKAQNI 36 LLISBLCAASAETEVGAMVGSNWVILSCIDPHRRHF LL S V L C V L C 49 DILAIVVYWEKEDEQVIQ.EVAGEEDIKPQHSN |
| LL S V L C LL S 49 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPOHSN 63 .ESEDRIYWOK. HDKVVLS VIAGKEKL VWPE 49 SESEEVVYFWOD QOKLVIYEHYLGTEKLDSVNAK 37RP-1 71 NESGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L C LS L VYWQ V L 81 FRGRASLPKDOLLKGNAALOTTDVKLODAGVYCGI 91 YKNRTLYDNTTYSLITIGLVLSDAGVYSGV 82 YEGRTSFDRNNWTERLHNVQIKDMGSYDGF | LL S LL S V L C LL S (3 . ESEDRIYWER EDEQVIQ. FVAGEEDLKPQHSN 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L V LS L VYWQ 91 YKNR . TLYDNT TYSLITLGLYLSDAGVYCQI 92 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDQF 82 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDQF 84 YKNR GHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | LL S U. C LL S V. L. C LL S S. ESEDRIYWER EDEQVIQ. FVAGEEDLKPQHSN 63 . ESEDRIYWOR HDKVVLS VIAGKLK. VWPE 49 SLSELVVFWQD QQKLVIYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVIYYLPYKSPGIN. VDSS LS L VYWQ V L L 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR TLYDNT TYSLITLGLVLSDRGIYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 84 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 85 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | LL S LL S V L C LL S (3 . ESEDRIYWER EDEQVIQ . EVAGEEDLERPQHSN 63 . ESEDRIYWOR HDKVVLS VIAGKLE. VWPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN . VDSS LS L VYWQ V L L 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNR TLYDNT TYSLITILGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 83 YKNR CHISLDSMKQGNFSLYLKNVTPQDTQEFTGR | LL S LL S V L C LL S (3 . ESEDRIYWER EDEQVIQ . EVAGEEDLERPQHSN 63 . ESEDRIYWER HDKVVLS VIAGKLE. VWPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN . VDSSS LS L VYWQ V L L 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCQI 91 YKNR TLYDNT TYSLITILGLVLSDRGIYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 83 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 84 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 85 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF | LL S LL S V L C LL S 63 .ESEDRIYWEREDEQVIQ. EVAGEEDLKPQHSN 63 .ESEDRIYWORHDKVVLSVIAGKIK. WPE 49 SLSEILVVFWQDQQKLVLYEHYLGTEKIDSVNAK 37RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L L 81 FRGRASLPKDQLLKGNAALQITUGNKLQDAGVYCGI 91 YKNR .TLYDNTTYSLITILGLVLSDRGTYSGV 82 YLGR .TSFDRNNWTLRLHNVQIKDMGSYDGF 82 YLGR .TSFDRNNWTLRLHNVQIKDMGSYDGF 83 YRGR .TSFDRNNWTLRLHNVQIKDMGSYDGF | LL S LL S V L C LL S (3 . ESEDRIYWER EDEQVIQ . EVAGEEDLKPQHSN 63 . ESEDRIYWOR HDKVVLS VIAGKIK. WPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN . VDSS LS L VYWQ V L V 1 VYWQ 91 YKNR TLYDNT TYSLITILGLVLSDAGVYCQI 92 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 83 YRNR GHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | LL S LL S V L C LL S (3 . ESEDRIYWER EDEQVIQ . EVAGEEDLKPQHSN 63 . ESEDRIYWOR HDKVVLS VIAGKLK. VWPE 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 87 RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN . VDSS LS L VYWQ V L V LS L VYWQ 91 YKNR TLYDNT TYSLITILGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 84 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
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 | 1 S LLLS LL S LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWOR. HDKVVLS VIAGKEK. WPE 4 9 SLSEEVVIWODQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWO V L 81 FRGRASLPKDQLLKGNAALQITLGTKCOAGVCOI 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSCV 82 YLGRTSFDRN NWTLRIHNVQIKDMGSYDCF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTOR | 1 S LLLS LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWQR. HDKVVLS VIAGKEK. VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAALQITLGTVLSDRGIYSGV 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRN NWTERLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLS LL S LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWOR. HDKVVLS VIAGKEK. WPE 4 9 SLSEEVVIWODQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWO V L 81 FRGRASLPKDQLLKGNAALQITLGTKCOAGVCOI 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSCV 82 YLGRTSFDRN NWTLRIHNVQIKDMGSYDCF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTOR | 1 S LLLS LL S LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWOR. HDKVVLS VIAGKEK. WPE 4 9 SLSEEVVIWODQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWO V L 81 FRGRASLPKDQLLKGNAALQITLGTKCOAGVCOI 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSCV 82 YLGRTSFDRN NWTLRIHNVQIKDMGSYDCF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTOR | 1 S LLLS LL S LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWOR. HDKVVLS VIAGKEK. WPE 4 9 SLSEEVVIWODQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWO V L 81 FRGRASLPKDQLLKGNAALQITLGTKCOAGVCOI 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSCV 82 YLGRTSFDRN NWTLRIHNVQIKDMGSYDCF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTOR | 1 S LLLS LL S LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWOR. HDKVVLS VIAGKEK. WPE 4 9 SLSEEVVIWODQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWO V L 81 FRGRASLPKDQLLKGNAALQITLGTKCOAGVCOI 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSCV 82 YLGRTSFDRN NWTLRIHNVQIKDMGSYDCF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTOR | 1 S LLLS LL S LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWOR. HDKVVLS VIAGKEK. WPE 4 9 SLSEEVVIWODQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWO V L 81 FRGRASLPKDQLLKGNAALQITLGTKCOAGVCOI 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSCV 82 YLGRTSFDRN NWTLRIHNVQIKDMGSYDCF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTOR | 1 S LLLS LL S LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWOR. HDKVVLS VIAGKEK. WPE 4 9 SLSEEVVIWODQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWOIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWO V L 81 FRGRASLPKDQLLKGNAALQITLGTKCOAGVCOI 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSCV 82 YLGRTSFDRN NWTLRIHNVQIKDMGSYDCF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTOR | 1 S LLLS LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWQR. HDKVVLS VIAGKEK. VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAALQITLGTVLSDRGIYSGV 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRN NWTERLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLS LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWQR. HDKVVLS VIAGKEK. VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAALQITLGTVLSDRGIYSGV 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRN NWTERLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
 | 1 S LLLS LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWQR. HDKVVLS VIAGKEK. VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAALQITLGTVLSDRGIYSGV 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRN NWTERLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLS LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWQR. HDKVVLS VIAGKEK. VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAALQITLGTVLSDRGIYSGV 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRN NWTERLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLS LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWQR. HDKVVLS VIAGKEK. VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAALQITLGTVLSDRGIYSGV 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRN NWTERLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLS LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWQR. HDKVVLS VIAGKEK. VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAALQITLGTVLSDRGIYSGV 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRN NWTERLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLS LL S V L C V L C 4 9 DELAEVVIWER. EDEQVIQ. EVAGEEDEKPQHSN 63 .ESEDRIYWQR. HDKVVLS VIAGKEK. VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAALQITLGTVLSDRGIYSGV 91 YKNRTLYDNT TYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRN NWTERLHNVQIKDMGSYDGF 87RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
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| 1 SO LILS VGAMVGONYVLOCE VERRENT S V L C V L C V DELAEVERMER. EDEQVIQ. FVAGEEDEKPOHSN 63 . ESEDRIYWQKHDKVVLSVIAGKEK.WPE | 1 1 20 Lels Also Alievo Amyo Composition C | 1 1 20 LLLS VGAMVGSN V WGGLDFNRAMF
1 S V L C V L C V L C V DILAIVVYWEK.EDEQVIQ.FVAGEEDIKPQHSN | 1 1 20 Lilianda Arienga Arienga VII C
II S VII C VII C A DELAEVA VANEREDEQVIQ.EVAGEED KPQHSN | 36 LLLS VGAMPATION GONNYMANGTOFFINATION OF LLS V L C V L C V DELAEVAYWER. EDEOVIO FVAGEEDEKPOHSIN | 36 LLLGERMANAETEVGAMVGAMVILGETDENKARF
LLS VLC
10 DFTAFARFORFIK FIREOKYTO FVACEFINIKPOHGN | 10 Linds And Andrews A | 10 Linds Ariente Arien | 10 Lindship Arieveanveanveanverson Lindship V L. C. L. S. L. S. L. C. L. | 30 Lilisarievgamvednyjulotinkmir /
Lis
 | 30 LLLSTOPHOAFTEVGAMVGSINVHOLTOFINGER | 36 Lilionella Ariro Gama Gon a (17 C | 36 LLLSELSAETEVGAMVGSINVGSINVELLESTATION | 30
LLLISTICAMISALIEVGAMVGSINVVILSTLLISTICALI | 30 Lilian Hand Arithmen Conversion Control Con | | | |
 | | | | | I / VLLISDAVSVETOAYFNGTQYLPCPETRACINI
 | 17 VILISDAVSVETQAYFNGTQYIPCPETKAQNI |
| 1 S LLLS VGAMVGSNWWLSCIDFHKRHF LL S V L C 49 DELAEVEWER. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWQRHDKVVISVIAGKEKLOWNAK 87 RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITUDWKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLIGLVLSDAGVYCCI 82 YLGRTSFDRNNWTLRIHNVQIKDMGSYDGF | 1 S LLLSBLCAASAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DLLALVVYWEK. EDEQVIQ. FVAGEEDLKPQHSN 63 ESEDRIYWQK. HDKVVLS. VIAGKLK. VWPE 4 9 SLSELVVFWQD. QQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCQI 91 YKNR. TLYDNT. TYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRN. NWTLRIHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 SO LLLS VGAMVGSNWWLLSCHERFIELD FHRESH 1 LL S LL S L C V L C 4 DELAELWER. EDEQVIQ. FVAGEEDERPOHSN 63 .ESEDRIYWER HDKVVLS VIAGKER WPE 49 SESEDRIYWER HDKVVLS VIAGKER DVNAR 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ V L 1.S L VYWQ V L S1 FRGRASLPKDQLLKGNAALQITUWKLQDAGVYCQI 91 YKNR . TLYDNT TYSLIILGLVLSDRGTYSGV 82 YLGR . TSFDRN NWTLRIHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLSBLCAMSAETEVGAMVGSNWWLBCLDFHRESHFE 1 L S 1 L C 4 DELAEWWER. EDEQVIQ. FVAGEEDERPOHSN 63 .ESEDRIYWOR HDKVVLS VIAGKER WPE 49 SELETVVFWOD QOKLVLYEHYLGTEKEDSWNAK 37RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 1 L VYWQ 91 YKNR TLYDNT TYSLIILGLYLSDAGVYCGI 92 YKNR TLYDNT TYSLIILGLYLSDAGVYCGI 82 YEGR TSFDRN NWTERIHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 1 S LLLSBLCAMSAETEVGAMVGSNWWLBCLDFHRESHER LL S LL S 4 DELAEWWER. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWOR HDKWVLS VIAGKER. WPE 49 SESEDRIYWOD QQKLWLYEHYLGTEKEDSWNAK 37RP-1 71 NESGLYWYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ V L C 1. S L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDWKLQDAGWYCGI 91 YKNR TLYDNT TYSLITILGLWLSDRGTYSGV 82 YEGR TSFDRN NWTERLHNVQIKDMGSYDGF 83 YRNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 SO LLLS VGAMVGSNWWLSCHENERHER LL S LL S 4 DELALWER. EDEQVIQ. FVAGEEDIKPQHSN 63 .ESEDRIYWERHDKVVLSVIAGKIK. WPE 49 SISEIVVFWODQQKLVIYEHYLGTEKIDSWNAK 87 RP-1 71 NILSGLYVYWQIENPEVSWTYYLPYKSPGIN. VDSS LS L VYWQ V L 1. S L VYWQ V L 81 FRGRASLPKDQLLKGNAALQTTDVKLODAGVYCQI 91 YKNR. TLYDNTTYSLIILIGLVLSDRGIYSGV 82 YLGR. TSFDRNNWTIRLHNVQIKDMGSYDGF 83 YRNRGHLSLDSMKQGNFSLYLKNVTPQDTQFTGFTGR | 1 SO LLLS VGAMVGSNWVLLSCHERFRITE 1 L S 4 DELALWER. EDEQVIQ. FVAGEEDIKPQHSN 63 .ESEDRIYWERHDKVVLSVIAGKIK. WPE 49 SISEILVVFWQDQQKLVIYEHYLGTEKILDSWNAK 37RP-1 71 NILSGILYWWQIENPEVSWTYYLPYKSPGIN. WDSS 1 L VYWQ 1 L VYWQ 91 YKNR .TLYDNTTYSLITILGIVISDRGTYSGV 82 YLGR .TSFDRNNWTIRLHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLS VGAMVGSNWVLLSUDPHREHTEN LL S LL S 49 DELAEUVEWER. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWER HDKVVLS VIAGKER. VWPE 49 SESEDRIYWER HDKVVLS VIAGKER. VWPE 49 SESEDRIYWEWD QQKLVLYEHYLGTEKEDSVNAK 17 NLSGLYVYWQIENPEVSVTYLPYKSPGIN. VDSS LS L VYWQ V LS L VYWQ 91 YKNR . TLYDNT TYSLITILGLVLSDAGVYCQI 91 YKNR . TLYDNT TYSLITILGLVLSDAGVYCQI 82 YEGR . TSFDRN NWTERTHNVQIKDMGSYDQF 82 YEGR . TSFDRN NWTERTHNVQIKDMGSYDQF
84 YENR CHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 1 S LLLSBLCAMSAETEVGAMVGSNWVLBCLDFHRENFEL 1 L S 4 DELAEUVTWER. EDEQVIQ. FVAGEEDERPQHSN 63 .ESEDRITWOK. HDKVVLS VIAGKEK. WWPE 49 SESEDRITWOEN. DQKLVIYEHYLGTEKEDSWNAK 17 NLSGLYVTWQIENPEVSWTYLPYKSPGIN. WDSS LS L VYWQ V L C LS L VYWQ V L V V L V S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVCGI 91 YKNR. TLYDNT TYSLITILGLWISDRGTYSGV 82 YLGR. TSFDRN NWTERTHNVQIKDMGSYDGF 84 YLGR. TSFDRN NWTERTHNVQIKDMGSYDGF 76 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQFFTGR | 1 S LLLSBLCAASAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 S LLLSBLCAMSAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.VWPE 4 9 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLSBLCAASAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 S LLLSBLCAASAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 S LLLSBLCAASAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 S LLLSBLCAASAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 S LLLSBLCAASAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 S LLLSBLCAASAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEK.VWPE 4 9 SLSEEVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 S LLLSBLCAMSAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.VWPE 4 9 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
 | 1 S LLLSBLCAMSAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.VWPE 4 9 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLSBLCAMSAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.VWPE 4 9 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLSBLCAMSAETEVGAMVGSNWVLJSGIDPHKRHF LL S V L C 4 9 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.VWPE 4 9 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLSBLCAMSAETEVGAMVGSNWVLJSCIDPHKRHF LL S V L C 4 9 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.VWPE 4 9 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLSBLCAMSAETEVGAMVGSNWVLJSCIDPHKRHF LL S V L C 4 9 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.VWPE 4 9 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
 | 1 S LLLSBLCAMSAETEVGAMVGSNWVLJSCIDPHKRHF LL S V L C 4 9 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.VWPE 4 9 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLVLSDRGIYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S LLLSBLCAASAETEVGAMVGSNWWLSCIDPHKRHE 1 LL S 1 L S 1 L C 4 DELLAELWWWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWWK HDKVVLS VIAGKEKLDSWNAK 49 SLSELVVFWQD QQKLVIYEHYLGTEKLDSWNAK 87 RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 1 L V | 1 S LLLSBLCAASAETEVGAMVGSNWWLSCIDFHKRHF LL S V L C V L C 49 DELAEVVWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKEKLDSWNAK 49 SESEDRIYWQKHDKVVLSVIAGKEKLDSWNAK 37RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C 1 VYWQ 81 FRGRASLPKDQLLKGNAALQITDWKLQDAGVYCGI 91 YKNRTLYDNTTYSLIILGLWLSDRGTYSGV 82 YEGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 S LLLSBLCAASAETEVGAMVGSNWWLSCIDFHKRHF 1 LL S 4 DELAEVEWER. EDEQVIQ. FVAGEEDEKPOHSN 63 ESEDRIYWOK. HDKVVIS VIAGKEKLDSWNAK 49 SESEDRIYWOK. HDKVVIS VIAGKEKLDSWNAK 87 RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 81 FRGRASLPKDOLLKGNAALOITDVKLODAGVYCCI 91 YKNR. TLYDNT TYSLIILIGLWLSDRGTYSGV 82 YLGR. TSFDRN NWTLRIHNVQIKDMGSYDGF | 1 S LLLS VGAMVGSNWWLSCIDFHKRHF LL S V L C 49 DELAEVEWER. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWQRHDKVVISVIAGKEKLOWNAK 87 RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITUDWKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLIGLVLSDAGVYCCI 82 YLGRTSFDRNNWTLRIHNVQIKDMGSYDGF | 1 S LLLSBLCAASAETEVGAMVGSNWWLSCIDPHKRHF LL S V L C V L C 49 DELAEVWER. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWQR. HDKVVLSVIAGKEKTWPWE 49 SESEDRIYWQDQQKLVLYEHYLGTEKEDSWNAK 37RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ 91 YKNRTLYDNTTYSLIILGLYLSDRGIYSGV 82 YEGRTSFDRNNWTERLHNVQIKDMGSYDGF
 | 1 S LLLSBLCAMSAETEVGAMVGSNWWLSLDFHRIGHE LL S V L C 49 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN 63 .ESEDRIYWOKHDKVVLSVIAGKEK.WPE 49 SESELVVFWQDQQKLVLYEHYLGTEKEDSVNAK 87 RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN.VDSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAAEQITDWKLQDAGVYCQI 91 YKNRTLYDNTTYSLIILGLWLSDRGTYSGV | 1 S LLLSBLCAASAETEVGAMVGSNWVWLSLDFHKRHE 1 L S V L C 4 9 DELAEVVYWEK. EDEQVIQ. FVAGEEDEKPQHSN 63 . ESEDRIYWOK. HDKVVLS VIAGKEK. WPE 4 9 SESEDRIYWYWOD QQKLVLYEHYLGTEKEDSWNAK 37RP-1 71 NESGLYVYWOIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 1 VY | 1 S LLISBLCAASAETEVGAMVGSNWVLSGIDFHKRHE 1 S V L C 1 C 4 DILAIVVYWEKEDEQVIQ.EVAGEEDIKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKIK.WPE 4 SI.SEIRVYFWOD. OOKI,VI,YF,HYI,GHEKIDSVNAK | 1 36 LLLSBLCAASAETEVGAMVGSNWVLJSGIDFHRKHE 1 LL S V L C 49 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.WPE | 1 S LLISBLCAASAETEVGAMVGSNWVLJSGIDFHRIGHE LL S V L C 49 DILAIVVYWEK. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIYWOK. HDKVVIS. VIAGKIK. WPE | 1 36 LLISBLCAASAETEVGAMVGSNWVLSGIDFHKKHF
1 S V L C 1 C 4 9 DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWQKHDKVVLSVIAGKLK.VWPE
 | 1 36 LLISBLCAASAETEVGAMVGSNWVLAGIDFHKKHF
11 S V L C V | 1 36 LLISBLCARSAETEVGAMVGSN WULSG LDFHKKHF
LL S
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V DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN | NRP-1 36 L il SBLCAASAETEVGAMVGSN W VLAGIDFHRKHF
Li S
V L C
V DILAIVVYWEKEDEQVIQ.EVAGEEDIKPQHSN | NRP-1 36 LLLSHCAASAETEVGAMVGSN W VLJSCIDFHRKHF
LL S
V L C
V DELAEVVVVWEKEDEQVIQ.EVAGEEDEKPQHSN | 36 LLISBUÇABSAETEVGAMVGSN V UJSÇIDFHKIÇHE
LL S
49 DELAEVIVYWER, EDEOVIO EVAGEEDEKPOHSIN
 | 36 LLISINGARASAETEVGAMVGSN V UJSIGIDPHKIKHE
LL S
10 pri afræter fineskyts fyrgefenikeshinn | 36 LLISHCAMSAETEVGAMVGSN V UJSCIDPHKKHE
LL S V L C | 36 LLISINGABSAETEVGAMVGSN V USGIDPHKKHE
LL S V L C | 36 L LI S B LCABSAETEVGAMVGSN W V L SC
LL S
 | 36 LLTSTCARSAETEVGAMVGSN V VLSCIDFHRIGHE /
LL S | 36 LLLSBUCAASAETEVGAMVGSN V VLSCIDFHKKHE / | 36 LLLSBUCAASAETEVGAMVGSN W VLSCIDFHKKHF | 36 LLISISLCABISAETEVGAMVGSNVULSICTUPHKICHE | 36 LLIST CALSARITEVGAMVGSNWVLSCIDFHKIGHE /
 | 36 LLIST CAPSALTEVGAMVGSNWVLSCIDPHKKHE | 36 LLIST CAASAETEVGAMVGSNVILSCIDFHRIGHE | | |
 | | | | | T / PLISON ET QAY FINGT OT IL CELL KAQIVI
 | 17 VILISPANSVETQAYFNGTQYIPCPETKAQNI |
| 1 S (LLLSELCAPASAETEVGAMVGSNUVULSCIDPHRRHF 1 L S V L C V L C 4 9 DILAIVVYWER. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVLSVIAGKIK.VWPE 4 9 SLSEILVVFWQD. QQKLVIYEHYLGTEKIDSVNAK 87 RP-1 71 NILSGILYVYWQIENPEVSVITYYLPYKSPGIN.VDSS LS L VYWQ V L C 81 FRGRASLPKDQLLKGNAAIQITUDVKLQDAGVYCQI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF | 1 36 LLLSGLCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S 1 L C 2 L C 3 ESEDRIYWER. EDEQVIQ. EVAGEEDLKPQHSN 63 ESEDRIYWER. HDKVVLS. VIAGKLK. WPE 49 SLSELWVFWQD. QQKLVIYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYLPYKSPGIN. VDSS 1 LS L VYWQ 1 LS L VYWQ 1 LS L VYWQ 1 LS L VYWQ 1 SH FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR. TLYDNT. TYSLITILGLWLSDRGTYSGV 82 YLGR. TSFDRN. NWTLRIHNVQIKDMGSYDGF 837RP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 36 LLLSGLCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S 1 L C 1 L S 4 9 DLLALWVWER EDEQVIQ. EVAGEEDLKPQHSN 63 . ESEDRIYWGR HDKVVLS VIAGKLK. WPE 4 9 SLSELWVFWQD QQKLVLYEHYLGTEKLDSWNAK 87RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ 1 L VYWQ 81 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCGI 91 YKNR. TLYDNT TYSLITLGLWLSDRGTYSGV 82 YLGR. TSFDRN NWTLRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 36 LLLSGLCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S 1 L C 1 L S 1 L C 1 L C 1 L S 1 L C 1 | 1 36 LLLSGLCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S 1 L C 1 L S 1 L C 1 L S 1 L C 1 L C 1 L S 1 L C 1 | 1 36 LLLSGLCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S 1 L S 1 L C 2 L C 3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 63 .ESEDRIYWERHDKVVLSVIAGKLK.WPE 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS 1 L VYWQ 1 L VYWQ 1 L VYWQ 1 S L VYWQ 1 L VYWQ 1 L VYWQ 1 S L SEDRIX L VYWQ 1 L VYWQ 2 L C 3 L VYWQ 3 L CRASLPKDQLLKGNAALQTTGLWLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YRNR.TSFDRNNWTLRLHNVQIKDMGSYDGF 84 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF | 1 36 LLLSGLCAASAETEVGAMVGSNWWLSCIDPHRRHF 1 L S 1 L C 1 L S 1 L C 1 L C 1 L S 1 L C 1 | 1L S LLLSGLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S LL S V L C V L C 49 DELAELWER. EDEQVIQ. FVAGEEDEKPQHSN 63 .ESEDRIYWOR HDKVVLS VIAGKEK. WPE 49 SELSELVVFWOD QOKLVLYEHYLGTEKEDSVNAK 87 RP-1 71 NESGLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ V L C L V * LS L VYWQ V L C L V * LS L VYWQ S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCQI 91 YKNR . TLYDNT TYSLIIILGLVLSDAGVYCQI 82 YLGR . TSFDRN NWTLRILHNVQIKDMGSYDQF 83
YRNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTQR | 1L S LLLSGLCAASAETEVGAMVGSNWWLSCIDPHRRHF LL S LL S V L C V L C 49 DELAELWER. EDEQVIQ. FVAGEEDERPQHSN 63 .ESEDRIYWOR HDKVVLS VIAGKER. WPE 49 SELSELVVFWOD QOKLVLYEHYLGTEKEDSVNAK 37RP-1 71 NESCLYVYWQIENPEVSWTYYLPYKSPGIN. WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ V L C L V * LS L VYWQ V L C L V * LS L VYWQ V L C L V * LS L VYWQ V L C L V * LS L VYWQ V L C L V * LS L VYWQ V L C L V * LS L VYWQ V L C LS L VYWQ V T C C V * LS L VYWQ V L C LS L VYWQ V T C C V * V T C C V * V T C C V T C V T C | 1 S6 LLLSELCPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S LL S V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ V L C S1 ERGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTGR | 1 S6 LLLSELCAPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S V L C V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQCKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSCV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S6 LLLSELCPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S LL S V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ V L C S1 ERGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTGR | 1 S6 LLLSELCPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S LL S V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ V L C S1 ERGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTGR | 1 S6 LLLSELCPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S LL S V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ V L C S1 ERGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTGR | 1 S6 LLLSELCPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S LL S V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ V L C S1 ERGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTGR | 1 S6 LLLSELCPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S LL S V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ V L C S1 ERGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTGR | 1 S6 LLLSELCPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S LL S V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQQKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ V L C S1 ERGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YKNRGHLSLDSMKQGNESLYLKNVTPQDTQEFTGR | 1 S6 LLLSELCAPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S V L C V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQCKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSCV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
 | 1 S6 LLLSELCAPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S V L C V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQCKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSCV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S6 LLLSELCAPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S V L C V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQCKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSCV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S6 LLLSELCAPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S V L C V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQCKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSCV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S6 LLLSELCAPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S V L C V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQCKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSCV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S6 LLLSELCAPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S V L C V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQCKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSCV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR
 | 1 S6 LLLSELCAPASAETEVGAMVGSNWWLJSCIDPHRRHF LL S V L C V L C V L C S3 .ESEDRIYWEREDEQVIQ.EVAGEEDLKPQHSN 49 SLSELVVFWQDQCKLVLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C LS L VYWQ V L C LS L VYWQ S1 FRGRASLPKDQLLKGNAALQTTDVKLQDAGVYCCI 91 YKNRTLYDNTTYSLITLGLVLSDRGTYSCV 82 YLGRTSFDRNNWTLRLHNVQIKDMGSYDGF 83 YRP-1 105 YKNRGHLSLDSMKQGNFSLYLKNVTPQDTQEFTGR | 1 S6 LLLSSLCAASAETEVGAMVGSNWWLJSCIDPHRRHF LL S LL S V L C V L C V L C 4 9 DLLALWWER EDEQVIQ. EVAGEEDLKPQHSN 63 . ESEDRIYWOR HDKVVLS VIAGKLK. WPE 4 9 SLSELVVFWQD QQKLVLYEHYLGTEKLDSWNAK 87RP-1 71 NLSGLYVYWQIENPEVSWTYYLPYKSPGIN. VDSS LS L VYWQ V L C V * LS L VYWQ 91 YKNR TLYDNT TYSLITLGLVLSDRGTYSGV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF 84 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF | 1 S6 LLLSSLCAASAETEVGAMVGSNWWLJSCIDPHRRHF LL S LL S V L C V L C V L C S : ESEDRIYWER EDEQVIQ. EVAGEEDLKPQHSN 49 SLSELVVFWQD QQKLVLYEHYLGTEKLDSVNAK 87RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN. VDSS LS L VYWQ V L C V * LS L VYWQ 81 FRGRASLPKDQLLKGNAALQITDVKLQDAGVYCCI 91 YKNR TLYDNT TYSLITLGLVLSDRGIYSCV 82 YLGR TSFDRN NWTLRLHNVQIKDMGSYDGF | 1 S LLLSELCAPASAETEVGAMVGSNUVULSGIDPHRRHF 1 LL S V L C V L C V L C 4 DLLALVVYWEK. EDEQVIQ. EVAGEEDLKPQHSN 63 .ESEDRIYWQK. HDKVVLSVIAGKLK.VWPE 49 SLSELVVFWQDQQKLVIYEHYLGTEKLDSVNAK 87 RP-1 71 NLSGLYVYWQIENPEVSVTYYLPYKSPGIN.VDSS LS L VYWQ V L C V L LS L VYWQ 91 YKNRTLYDNTTYSLITILGIVISDRGTYSGV 82 YLGRTSFDRNNWTLRIHNVQIKDMGSYDGF | 1 S (LLLSELCAPASAETEVGAMVGSNUVULSCIDPHRRHF 1 L S V L C V L C 4 9 DILAIVVYWER. EDEQVIQ. EVAGEEDIKPQHSN 63 ESEDRIYWQK. HDKVVLSVIAGKIK.VWPE 4 9 SLSEILVVFWQD. QQKLVIYEHYLGTEKIDSVNAK 87 RP-1 71 NILSGILYVYWQIENPEVSVITYYLPYKSPGIN.VDSS LS L VYWQ V L C 81 FRGRASLPKDQLLKGNAAIQITUDVKLQDAGVYCQI 91 YKNR. TLYDNTTYSLITLGLVLSDRGTYSGV 82 YLGR. TSFDRNNWTLRLHNVQIKDMGSYDGF
 | 1 S (LLLSELCAPASAETEVGAMVGSNUVULSGIDPHRRHF 1 L S | 1 36 LLISELCAASAETEVGAMVGSNWWLJSCIDPHRRHF LL S V L C 49 DELAEVTWEKEDEQVIQ.EVAGEEDEKPQHSN 63 .ESEDRIYWFWQDQQKLWLSVIAGKEK.WWPE 49 SESELVVFWQDQQKLWLYEHYLGTEKEDSWNAK 37RP-1 71 NESGLYWWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L 81 FRGRASLPKDQLLKGNAAIQITDWKLQDAGVYCCI 91 YKNRTLYDNTTYSLIILGLWLSDRGITYSCV | 1 36 LLLSELCAASAETEVGAMVGSNWWLJSCIDPHRRHF LL S V L C 49 DLLALVWWEKEDEQVIQ.FVAGEEDLKPQHSN 63 .ESEDRIYWOKHDKWULSVIAGKLK.WWPE 49 SLSELVWYWQDQQKLWLYEHYLGTEKLDSWNAK 37RP-1 71 NLSGLYWYWQIENPEVSWTYYLPYKSPGIN.WDSS LS L VYWQ V L C 1 VYWQ V L C 1 V * 1 VYWQ V L C V * LS L VYWQ V L C LS L VYWQ V L C C | 1 36 LLLSBLCAASAETEVGAMVGSN W VLSCIDPHRRHF
1 S V L C V L C V L C 49 DELAEVVYWER. EDEQVIQ. FVAGEEDEKPQHSN 63 ESEDRIYWOR. HDKVVLS. VIAGKEK. WPE 49 SERFAYFWON OOKINTYFHYIGHEKEDSWNAK | 1 36 LLLSBLCAASAETEVGAMVGSN V VLSCIDPHRRHF 1L S V L C V L
C V L C V L C V L C V L C V L C V L C V L C V L C V L C V L C | 1 36 LLLSBLCAASAETEVGAMVGSN W VLSCIDPHRRHF
LL S V L C
V L C
V DLLALVVYWEKEDEQVIQ.FVAGEEDLKPQHSN
63 .ESEDRIYWQKHDKVVLSVIAGKLK.VWPE | D7RP-1 36 LLLSELCAASAETEVGAMVGSN W VLSCIDPHRRHF
LL S
V L C
V DELAEVWWEKEDEQVIQ.FVAGEEDIKPQHSN
63 .ESEDRIYWQKHDKVVLSVIAGKIK.WPE | D7RP-1 36 LLLSBLCAASAETEVGAMVGSN VVLSC IDPHRRHF
LL S V L C
V L C
V DLLALVVYWEKEDEQVIQ.EVAGEEDLKPQHSN
63 .ESEDRIYWQKHDKVVLSVIAGKLK.VWPE | 27RP-1 36 LLLSBLCAASAETEVGAMVGSN W VLSCIDPHRRHF
LL S
V L C
1 49 DELAEVVYWEKEDEQVIQ.FVAGEEDEKPQHSN | 57RP-1 36 LLLSELCAASAETEVGAMVGSN W WLSCIDPHRRHF
LL S
V L C
V DLLAEVVYWEKEDEQVIQ.EVAGEEDEKPQHSN
 | 57RP-1 36 Lllsbrogasaetevgamvgsn v vlscidphrrhf
lls V L C
1 pallafvvvvvekedeovic.evageedukpohsn | 36 LLLSELCAASAETEVGAMVGSN W VLSCIDPHRRHF
LLS V L C
49 DELAEVVYWER.EDEOVIO.EVAGEEDEKPOHSN | 36 LLLSLCAASAETEVGAMVGSN W VLSCIDPHRRHF
LL S
10 pflatatatatata forto fvacetofikpohsn | 36 LLLSLCAASAETEVGAMVGSN W VLSCIDPHRRHF
LL S V L C | 36 LLLSELCAASAETEVGAMVGSN W VLSCIDPHRRHF
LLS
 | 36 L lis licaasaetevgamvgsn w wiscidphrrhf
ll s | 36 L li selcaasaetevgamvgsn w wescidphrrhf 7
Lls | 36 L lis licaasaetevgamvgsn w wiscidphrrhf 7 | 36 LLLSELCAASAETEVGAMVGSN W WLSCIDPHRRHF 7 | 36 LLISELCAASAETEVGAMVGSNWULSCIDPHRRHF 7
 | 36 LLLSELCAASAETEVGAMVGSNWWLSCIDPHRRHF 7 | 36 LLLSLCAASAETEVGAMVGSNWWLSCIDPHRRHF 7 | 36 LLISELCAPASAETEVGAMVGSNWWISCIDPHRRHF 7 | 36 I.T. SELCIPERSPET VGAMVGSNIMMESQIDPHRRHF 7 |
 | | } _ [| |
 | | T / NOTE TROPING A TRUCT TO THE CELETRACION T | 17 VIIISPAVSVETQAYFNGTQYIPCPETKAQNI |

FIG. 128-

mB7-H1 116 ISYGGADYKRITTIKWNAPPYRKINORISKU mB7-2 112 IQKKPPTGSIILQQTHTELSKILBEHKLAQN mB7-2 113 IQKKPPTGSIILQQTHTELSVITANESFERIKLAQN mB7-1 140 VFMNTATELVKILBEVVRLRYAANESFERIKLAQN mB7-1 145 PATSE.HELICGAE.GYBEAE.VIMINSDHQPVS mB7-1 147 VTGNSGINLTCFASGGFFKPR.FSWIENGRELPG mB7-2 mB7-1 176 GKRSVTT.SRTEGMILNVTSIRVNALLTNSTNBYG mB7-2 mB7-2 mB7-1 188 INTTISQDPESELYTISSQIDENTTRNHT mB7-2 mB7-1 180 DIJALQNNTVYINKLGLYDVISILSHAMISRHHPQN mB7-1 mB7-1 206 FYGTFWRSQPGNHTAELITPELPATHPQN mB7-1 217 IKCLTKYGDAHVSEDFTWERPEDPPDS mB7-1 218 INTTISQDNVTELFSISNSLSIPSTHPPQN mB7-1 217 IKCLTKYGDAHVSEDFTWERPEDPPDS mB7-1 218 VVCVLETESMKISSKPINFTQEFP.SPQ

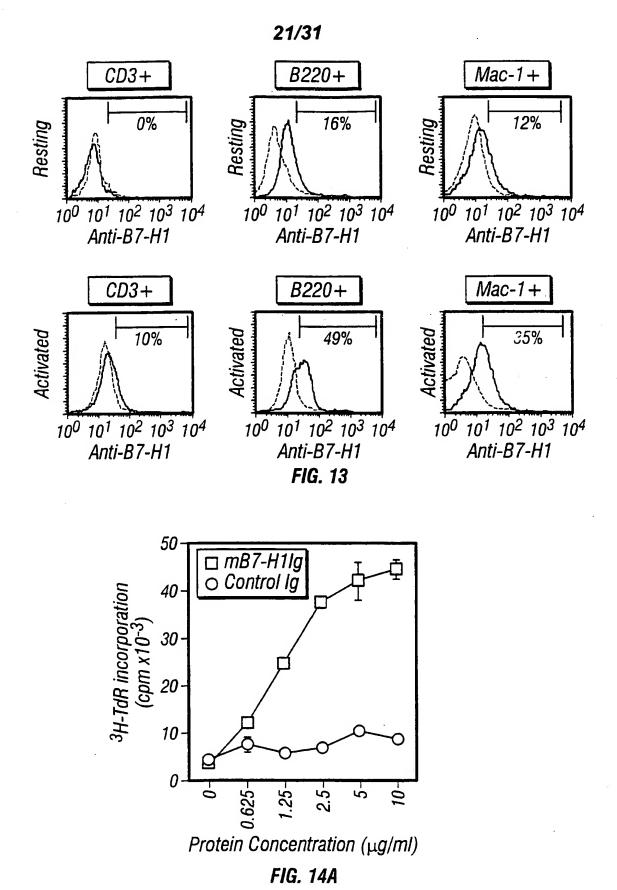
FIG. 128-2

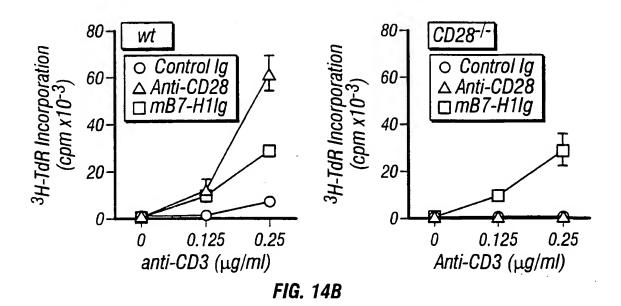
20/31

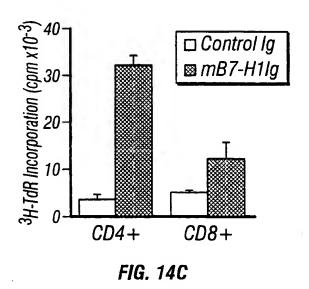
mB7-H1 mB7-1 mB7-2 mB7h/B7RP-1 mB7-1 mB7-2 mB7-2	237 245 241 273 273 280 280 274 301	R.THWVLLGSILLELIWVSTVLLELRKQVR 265 KNTLVLFGAGFGAVITVVVIVVIIKCFCKHRSCFR 279 .TYWKEITASVTVALLLVMLLIIVCHKKPNQPSR 273 .THNNELKVLVVPVLAVLAAAAFVSFIIYR 300 T V V T V V MLDVEKCGVEDTSKNRNDTQFEET 290 PSNTASKLERDSNADRETINIKELEPQIASAKPNAE 308 R R E K R E K
		FIG. 12B-3

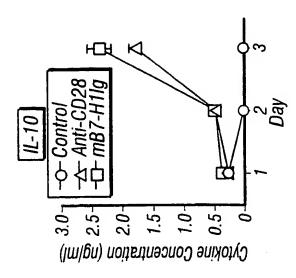
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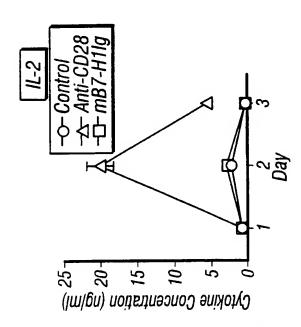
WO 01/39722 PCT/US00/32583

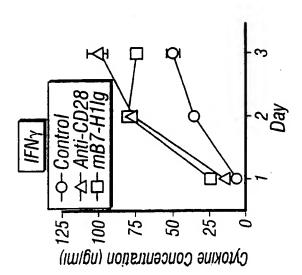


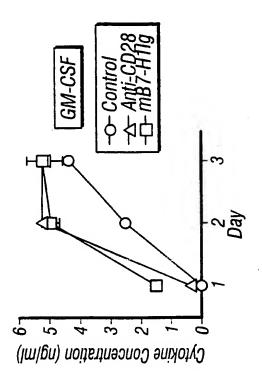


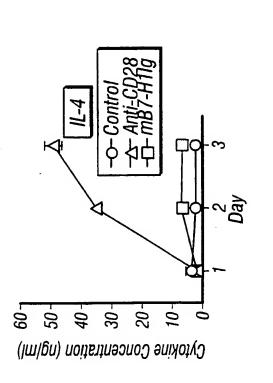




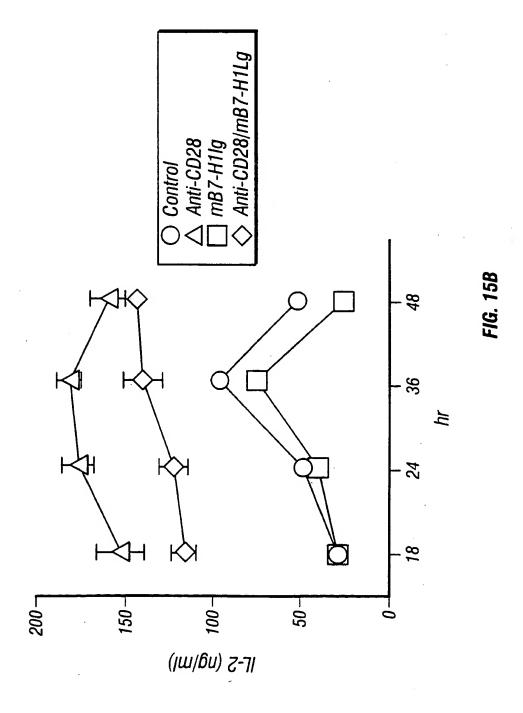






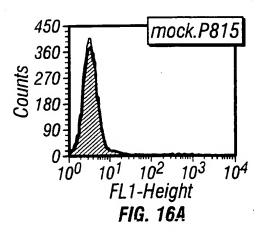


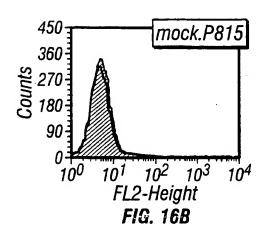
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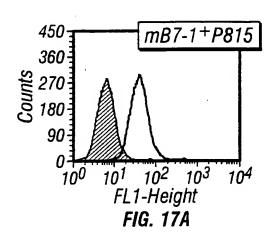


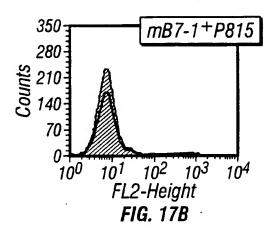
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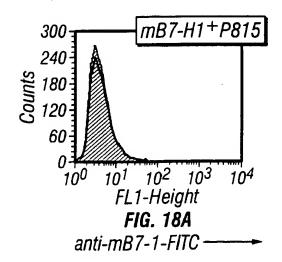
25/31

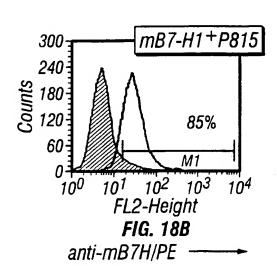


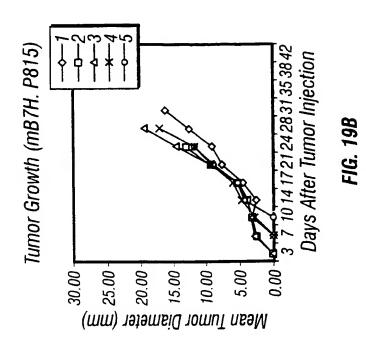


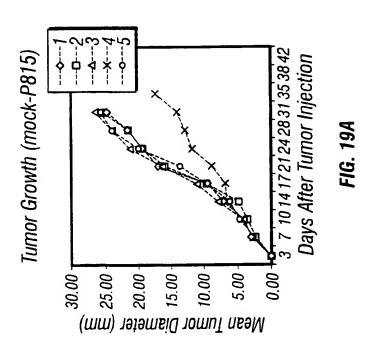


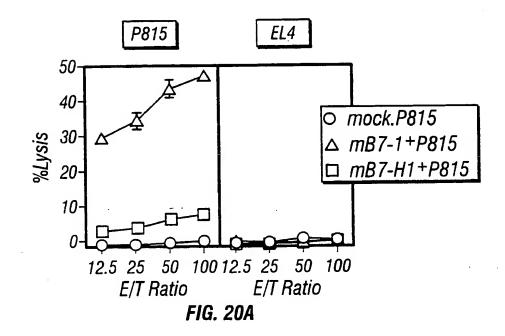


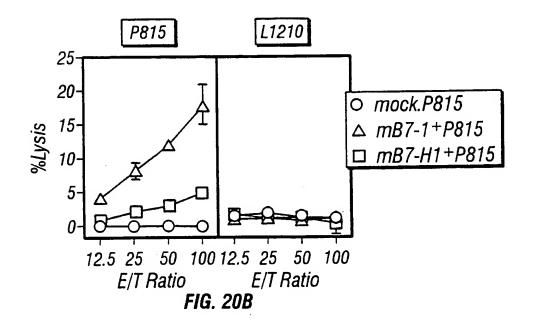


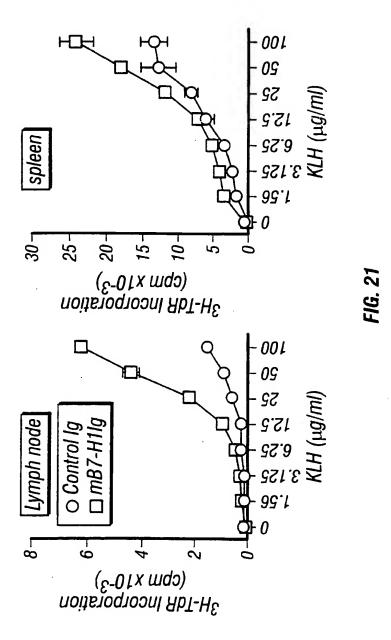




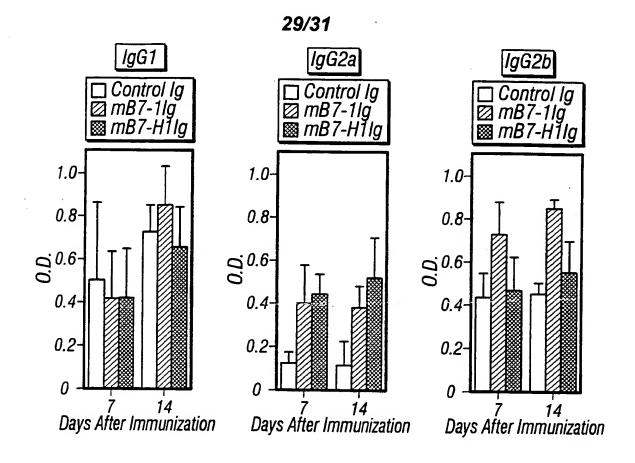








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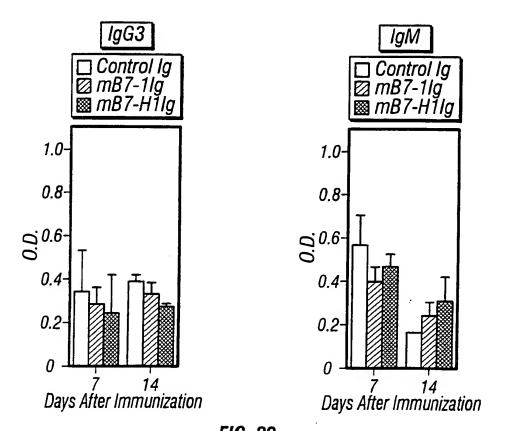


FIG. 22
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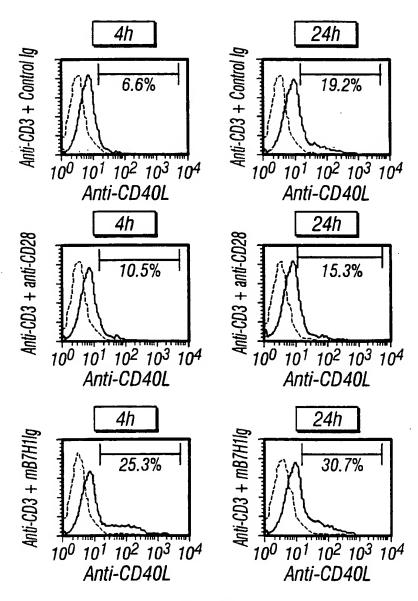


FIG. 23A

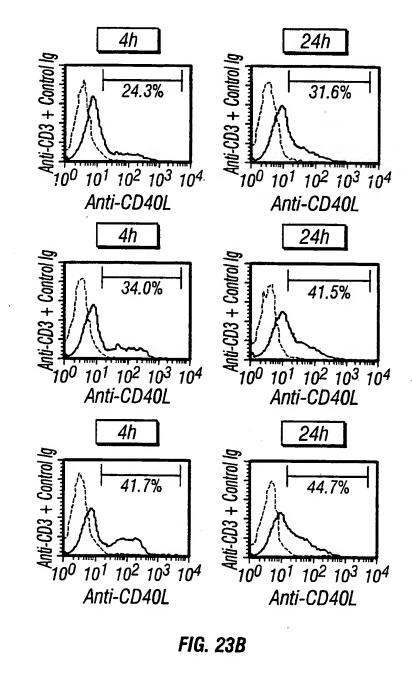


FIG. 23B

(19) World Intellectual Property Organization

International Bureau



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C12N 15/11. (51) International Patent Classification7: 15/63, 15/85, C07H 21/02, 21/04, C07K 5/00, 16/00, C12P 19/34

[US/US]; 2821 Char Lane. N.E., Rochester, MN 55906 (US).

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(74) Agent: MACPHAIL, Stuart: Fish & Richardson P.C., Suite 2800, 45 Rockefeller Plaza, New York, NY 10111 (US).

(22) International Filing Date:

30 November 2000 (30.11.2000)

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(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:

US

09/451.291 (CON)

Filed on

30 November 1999 (30.11.1999) 09/649,108 (CON)

US Filed on

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(71) Applicant (for all designated States except US): MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH [US/US]; 200 First Street S.W., Rochester, MN 55905 (US).

Published:

YU, ZW.

with international search report

(72) Inventor; and

For two-letter codes and other abbreviations, rejer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

21 February 2002

(75) Inventor/Applicant (for US only): CHEN, Lieping

(54) Title: B7-H1, A NOVEL IMMUNOREGULATORY MOLECULE

(57) Abstract: The invention provides novel polypeptides useful for co-stimulating T cells, isolated nucleic acid molecules encoding them, vectors containing the nucleic acid molecules, and cells containing the vectors. Also included are methods of making and using these co-stimulatory polypeptides.



INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/32583

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) :C12N 15/11, 15/63, 15/85; C07H 21/02, 21/04; C07K 5/00, 16/00; C12P 19/34 US CL :536/23.1, 23.4; 435/ 320.1, 325, 91.1; 530/350, 387.1, 402 According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED							
Minimum documentation searched (classification system followed by classification symbols)							
U.S. : 536/23.1, 23.4; 435/ 320.1, 325, 91.1; 530/350, 387.1, 402							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched none							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) biosis medline caplus east							
C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where ap	propriate, of the rele	vant passages	Relevant to claim No.			
	DONG et al. B7-H1, a third member of T-cell proliferation and interleukin-10 December 1999, Vol. 5, No. 12, particle.	1-10					
	FREEMAN et al. Engagement of treceptor by a novel B7 family member of lymphocyte activation. J. Exp. Med No. 7, pages 1027-1034. See entire at	leads to negative 02 October 200	ve regulation	1-10			
Further documents are listed in the continuation of Box C.		See patent family annex.					
A document defining the general state of the art which is not considered		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
to be of particular relevance B* earlier document published on or after the international filing date		"X" document of particular relevance; the claimed invention cannot be					
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Date of the actual completion of the international search 04 JUNE 2001		Date of mailing of the international search report 25 JIN 2001					
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